ORIGINAL PROOF

FINAL REPORT

Phase I
Expanded Site Inspection
for the
68th Street Dump Site
(MD-174)
Volume I

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1.0 Introduction

1.1 Authorization

The Maryland Department of the Environment, Waste Management Administration (MDE/WAS) conducted this Phase I Expanded Site Inspection (PI-ESI) under Cooperative Agreements V-993004-01-0 and V-93122-01-0 with the U.S. Environmental Protection Agency (USEPA), Region III. This PI-ESI was done under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA). Additionally, MDE is authorized to perform this study under Title 7, the State Environmental Article.

1.2 Scope of Work

The MDE/WAS was contracted by the USEPA to perform a PI-ESI of the 68th Street Dump Site (MD-174). The scope of the study included: review of the available file information; several initial site visits to select sampling locations; collection of non-sampling data; identification of potential safety and health concerns for the samplers; and sampling of waste and environmental media. The potential for release or actual release of hazardous waste from the landfills and other ensite sources through the groundwater, surface water, soil, and air is evaluated. The populations and sensitive environments which may be or are being affected are then discussed.

1.3 Executive Summary and Conclusions

The estimated 125-acrs 68th Street Dump Site is located in Baltimore County near Rosedale, Maryland. It is the site of former unlined landfills that received unknown types and quantities of industrial wastes during the 1950's and the 1960's. Additionally, waste oil was dumped into lagoons, contaminating nearby surface waters. These operations, along with open burning and dumping, resulted in complaints by the local residents. Debris associated with the landfill operations is still present onsite.

Six owners of property on the site have been identified. Two of the owners lease a portion or all of their property to other firms.

There are two facilities onsite that are regularly active, Browning-Ferris Industries (BFI), a refuse collection business, and the Baltimore County Redhouse Run Pumping Station. BFI has approximately 100 employees; according to BFI, the facility does not handle hazardous wastes. It leases property from the Tyler family; Mr. Robb Tyler was the operator of the former landfills.

There is a third, semi-active facility, the M.F. Winstead property, that is used for storage of trailers, and slag of composition

unknown to MDE. This facility is situated on the R.M. Winstead Site (MD-133), which replaced the La Crosse Chemical Company after it burned down in the 1970's. The former Maryland Brass and Metal Works building was also located in this area.

Also present is an abandoned radio transmitter station containing PCB wastes. These wastes were to be removed in 1993 by a licensed contractor and shipped to a proper waste disposal facility. To date, this has not been done.

Most of the site is now vegetated, and there are wetlands onsite. Six surface water bodies are located on or adjacent to the site, including Herring Run, which is used for fishing.

Access to most of the site is unrestricted, and it is used for unauthorized recreation, burning, and dumping by trespassers.

Due to past and present waste disposal activities, and the short depth to the aquifer (10-30'), the groundwater under the site is very likely contaminated. Nearly all residents within a four mile radius of the site obtain potable water from the Baltimore Municipal System, and are therefore unaffected at present. Six domestic wells are present within 0.75 mile of the site, five of which are located to the southeast on Philadelphia Avenue. There is a potential for contaminants from the site to reach the wells on Philadelphia Avenue. However, four of these wells were sampled in 1993 by Baltimore County and analyzed by State of Maryland laboratories. No organic contaminants were detected. Lead was found in one well at 0.07 ppm; this well is being resampled by Baltimore County. There is a well at the BFI facility that is used for non-potable purposes and was sampled during this study. No contaminants were detected at levels of concern to human health.

Organic compounds and inorganic substances were detected in soil samples collected from the areas of the landfills, the old transmitter station, and the BFI property, and in sediment samples collected on or adjacent to the site at levels greater than three times the background concentrations. These contaminants include arsenic, beryllium, lead, cyanide, pesticides and polychlorinated biphenyls (PCBs) in one or more soil samples. Sediment samples contained mercury and polycyclic aromatic hydrocarbons (PAHs), establishing contamination of wetlands and fisheries. Six contaminants were also detected in one or more aqueous surface water samples at levels above the Ambient Water Quality Criteria (AWQC) recommended for the protection of aquatic life.

2.0 Site Description

The Site is an approximately 125-acre tract of land located east of the Baltimore City-County line and Interstate-95, and south of Pulaski Highway (Route 40) and Rosedale, Maryland. The estimated site area and its boundaries are shown in Figures 3 and 5. The site boundaries are Interstate 95 (west), the Baltimore and Ohio railroad tracks, operated by CSX transportation (north), Herring Run (south), and Redhouse Run (east).

Two other CERCLA sites are located next to the 68th Street Dump. The Colgate Pay Dump (MD-176) is adjacent to the western perimeter of the site, under I-95, and the Industrial Enterprises site (MD-184) is near the site to the southeast.

The property that makes up the site is owned by six different parties (Section 2.1, Appendix I), so it has no one address. The site is situated on the U.S. Geological Survey 7.5' Baltimore East topographic quadrangle.' Because the site is approximately one mile wide from east to west, two sets of Maryland and international grid coordinates were calculated based on two of the larger landfills onsite. For the original landfill on the western side of the site, the Maryland grid coordinates are 933,523'east and 536,309' north; the international coordinates are 76°31'43" west longitude and 39°18'18" north latitude. For the second ("island area") landfill, the Maryland grid coordinates are 936,712' east and 537,617'north; the international coordinates are 76°31"04" west longitude and 39°18'31" north latitude.

To reach the site from MDE, take I-95 north to Exit 61 (U.S. Rt. 40/Pulaski Highway). Turn right on Rt. 40 and make a right at the second light, which is 68th Street. Follow the street, which becomes Lake Road, over two sets of railroad tracks and bear left onto an access road that leads to the <u>eastern</u> side of the site (Figures 1 and 2).

To reach the <u>western</u> side of the site where the original landfill is located, turn right from 68th street onto Biddle Street and follow it to the end (62nd street). Walk straight ahead across the property at the end of Biddle Street owned by Baltimore County, and then walk left to the CSXT railroad tracks. Cross the railroad trestle over Moore's Run and descend to the landfill. CSX (Chessie Systems) Transportation requires advance permission to cross its property.

Three structures are located along the access road on the eastern side of the site: Browning-Ferris Industries (BFI); a large wood building in poor condition that is adjacent to BFI and the location of a former incinerator; and the M.F. Winstead facility, which is situated on the old R.M. Winstead site (MD-133) (Figure 5). There is one groundwater well on the leased BFI property (Section 2.1) that is used for non-potable purposes.

South of BFI is the Baltimore County Redhouse Run Pumping Station. Here, a large pipeline crosses over Herring Run and then runs under the "island area" landfill.

Closer to the center of the site, about 200 feet south of the railroad tracks, is a small abandoned building with a PCB label warning. This building was a former transmitter station for WEBB radio during the 1960's. A satellite dish and scattered metallic and electronic debris were present. South of the building is a marshy area. There is a broken pipeline that runs from this building toward three large radio towers located to the west in the center of the site. This "pipeline" was a cover for cables that appeared to lead toward the towers."

There are no buildings on the western side of the site, only the former landfill. One monitoring well is located near the border of the Colgate Pay Dump and the original landfill (Parcel 340, Appendix A, Map 2). This well, identified as BC-88-0137, was installed during the SI on the Colgate Pay Dump. 19

With the exception of the BFI and Winstead properties, almost the entire site was moderately to heavily vegetated during the site visits. This vegetation includes woods, marshes, tall grasses and brush. Areas less heavily vegetated are located near the CSXT railroad tracks, along Herring Run, at the radio towers, and on parts of the original (western) landfill where trespassers have made dirt bike trails and go "four-wheeling".

On the northwestern side of the site is a residential area, Maryland Manor, and on the northcentral side are commercial businesses. Directly west of the site is property owned by the City of Baltimore that includes the Colgate Pay Dump, and land leased to the Pulaski Company (Incinerator). To the east of Redhouse Run is another residential development, Chesaco Park. South of the Herring Run, along Quad Avenue, are a number of commercial firms. At the end of Quad Avenue is an area of "escaped" property (i.e. not assessed for taxation) on which there is open dumping. 12.14

There are six surface water bodies associated with the site (Section 3.2). In general, the direction of surface water runoff is toward Herring Run, Redhouse Run, and the onsite pond (Figure 5). Overall, the terrain slopes gently towards Herring Run. Most of the site is situated on the 100 year floodplain. 15

A storm drain near the railroad tracks and a drainage ditch leading to Moore's Run were identified in an earlier study but could not be located for sampling during this PI-ESI (Figure 7). Instead, a drainage culvert opposite the original landfill that empties into Herring Run was sampled.

The site is unfenced and accessible to the public. Many signs of trespassing were observed during the site visits.

2.1 Site Use

Mr. Robb Tyler operated a number of permitted landfills onsite during the 1950's and 1960's (Section 2.2). The landfills appear to have received municipal and industrial wastes, including one or more of the following: liquids from vacuum trucks, 55-gallon drums, refuse, incinerator ash, and waste oils.

The first landfill is described as being south of the junction of the B & O railroad tracks (now CSXT) and Moore's Run and covering about 30 acres. At least part of this landfill corresponds to Parcel 340 of the current State Taxation and Assessment Map (Appendices A and B). The Landfill was operated from 1953-1956 by Robb Tyler, who held State Health Department Refuse Disposal Permit 11 (Map 2). Inspection reports prepared by the Department during this period indicate that there were numerous citizen's complaints, and problems such as uncontrolled fires, improper disposal of oil in open lagoons, water pollution problems from discharge of oil and refuse to Herring and Moore's Runs, and inadequate covering of refuse.

In 1956, Robb Tyler obtained a lease from Industrial Enterprises, and disposed of waste on this site (now Parcel 16)(Appendix C).

Robb Tyler was issued permits in 1957 and 1960 to operate landfills on his property (Attachment A, Parcel 151). Operations here included construction of a new office and garage complex, salvaging, landfilling, burning of refuse in an incinerator constructed by Mr. Tyler, and spreading uncooled ash from the City Incinerator. Again, there were complaints by area residents and problems concerning open burning and inadequate cover material. A shallow landfill was formed and briefly used in the field between BFI and Redhouse Run. A landfill is also present on the "island area" across Herring Run from the Baltimore County Pumping Station.

An aerial photograph taken in 1964 indicates the presence of a dump on property that appears to be adjacent to Robb Tyler's (Appendix D). Part of this area was sampled during the NUS Site Inspection (Section 2.1.1); a sample was also collected here during this study (Section 5.2.3). Mr. Tyler operated a shallow, "U"-shaped landfill around the radio towers for an unknown period of time in the mid-1960's."

In 1969, the Baltimore County Health Department obtained a court order to end landfill operations. The refuse collection business operated by Robb Tyler was subsequently sold to Browning-Ferris Industries (BFI) in 1972. BFI currently rents the complex from the Tyler's and employs about 100 people. However, available information indicates that as late as 1978, wastes from a metal finishing company in Pennsylvania may have been transported to the site (Appendix E).

Mt. Clare Properties, Inc., a subsidiary of CSXT, leases part of its property (Appendix A) to Allied Media, which owns radio station WEBB, and to M.F. Winstead Company, Inc. M.F. Winstead is the son of R.M. Winstead, the latter of whom operated a waste oil collection facility in the mid-1970's (see MD-133). Before this operation, the site was the location of the La Crosse Chemical Company, which was destroyed by fire in the early 1970's. An architectural blueprint of this property done in 1956 shows the Maryland Brass & Metal Works building, which is no longer present, in the same general area (Appendices F & H). The operations of this firm are now unknown.

The M.F. Winstead facility is currently semi-active; it is mainly used to store trailers. There are large piles of gray slag here, and metal debris scattered throughout the leased property.

Observations made during the site visits indicate that trespassing and illegal dumping continue to occur due to unrestricted access. 12.13.14.15 Metal debris, drums, soft drink and beer containers, a hypodermic syringe, and other refuse were observed, particularly in the vicinity of Herring Run. There are footpaths throughout Parcel 340 that were previously reported to be used by people on dirt-bikes. Empty drums were also seen in or next to Herring Run, Redhouse Run, and Moore's Run. Between May 31 (sampling location flagging) and June 2 and 3 (site sampling), the flags for SOILS 1-3, and SW/SED 9, 10, and 11 were removed.

During sample location flagging, people were fishing in Herring Run directly across from the "island area" landfill, part of Parcel 151, at the Baltimore County Pumping Station. This has apparently been going on for an unknown number of years.20

Unauthorized dumping and evidence of burning were also observed on Parcel 405. 12.13.14.15

The ownership history of most of the parcels of land onsite is given in Appendix H.

2.2 Permits and Regulatory Actions

Mr. Robb Tyler held refuse disposal permits for sanitary landfill operations issued to him by the State Health Department between 1953 and 1965. Much of the waste was landfilled, but open dumping and burning of wastes occurred as well.

The permits issued to Mr. Tyler are listed below:3

PERMIT NUMBER	DATE OF ISSUANCE	REMARKS
11	9-16-53	Operation of sanitary landfill (Part of current Parcel 340)
19*	12-27-55	Operation of snainery leadful on lead leased by the Franklin Realty Company (Industrial Enterprises) (Parcel 16) ^a
24	1-16-57	Operation of sanitary landful and construction of garage (Part of current Parent 151)
60-34-0374	5-24-60	Refuse collection use disposal service (seme location as above)
65-33-0717	7-4-65	Operation of sanitary leadfill

[&]quot;This property was loased by Mr. Tyler and was previously evaluated in the SI for the Industrial Enterprises site (MD-184)

Inspection reports prepared by the State Health Department from 1953-1955 indicate that Mr. Tyler received orders to correct improper conditions at the original landfill (Permit 11), in part as a result of citizen's complaints. Operations of the landfills under Permits 24 and 60-34-0374 also resulted in complaints. (Section 2.1). No information is available on permit 65-33-0717.

2.3 Removal Actions

There have been two removal actions at the site. In 1984, personnel from the Maryland Waste Management Administration (MDWMA) found ten 55-gallon drums protruding from a hillside on the Tyler property that is now rented to BFI. The drums were removed by MWR, Inc., a licensed hazardous waste contractor. One drum contained paint sludge and was taken to a treatment, storage, and disposal facility.

In July, 1985, the Baltimore County Fire Department (BCFD) and the MDWMA responded to a fire on the "island area" of the former dump. Robb Tyler was contacted and agreed to extinguish the fire and coordinate a clean-up of the area. Air samples collected revealed the presence of benzene, toluene, o-xylene, methyl chloride, and 1,1,1 trichloroethane. In October, at least 40 55-gallon drums were excavated and removed from "drum island."

3.0 Environmental Setting

3.1 Water Supply

The depth to the water table at the site is shallow (<10-30'), and the groundwater under the site is likely to be contaminated due to past waste disposal practices. Therefore, it should not be used for potable purposes. However, most of the residents within a four mile radius of the site rely on the Baltimore Municipal System, which obtains water from the Liberty and Loch Raven reservoirs located about ten miles northwest of the City.

An estimated 138 people located over one mile from the site obtain drinking water from groundwater. Approximately 15 people located 0.5 - 1.0 mile southeast of the site are served by about six residential wells; five wells are located on Philadelphia Avenue. The sixth well is adjacent to the northern perimeter of the Batavia Landfill. Based on available geologic data, there is a potential for contamination of the Philadelphia Avenue wells by the site. However, these wells are in an urban area, and are also located downgradient of the Batavia Landfill (MD-175) and Gibson-Homans (MD-316). Four of the wells on Philadelphia Avenue were sampled by the Baltimore County Department of Environmental Protection in 1993, and the samples analyzed by the gas chromatography-mass spectrometry and multi-element laboratories at the Maryland Department of Health and Mental Hygiene (MDHMH). No organic contaminants were detected.

3.2 Surface Water

There are six surface water bodies associated with the site (Figure 4). Moore's Run, and an unnamed stream that flows from the area of a large pond traverse the site from north to south, and are located near the original (western) and second (eastern) landfill areas, respectively. Both of these streams flow into Herring Run, which borders the southern perimeter of the site, and in turn empties into the headwaters of the Back River. Another stream, Redhouse Run, which forms the eastern perimeter of the site, is also near the second landfill area and flows into the Back River.

Herring Run, the Back River, and possibly Redhouse Run are fisheries as defined by EPA. Several years ago, a fishing tournament was held on Herring Run directly south of the original landfill. Recreational fishing is known to occur on Herring Run and in the Back River, including the vicinity of Redhouse Run. Live and dead fish were observed in Herring Run, and a large dead fish was seen in the unnamed onsite stream during the initial site visits. Small fish were seen in Redhouse Run, and in Moore's Run.

Additionally, Moore's Run, Redhouse Run, and the Back River near the site are close to residential areas, and access to these surface water bodies, as well as to the site itself, is essentially unrestricted.7

The flow rate for the streams from visual observations made during the site visits is estimated to be as follows: Redhouse and Moore's Run, and the unnamed stream, <10 cubic feet per second (cfs); Herring Run and the headwaters of the Back River in the vicinity of the site, 10-100 cfs. The flow rate for Back River is 100-1000 cfs; the river in turn flows into the Chesapeake Bay, a coastal tidal surface water body.

The surface water migration pathway for the site is given below:

Surface Water Segment	<u>Distance (stream miles)</u>	Flow Rate (cfs)
	•	

Unnamed onsite stream	0 - 0.3	10>
Herring Run-Back River	0.3 - 1.2	10-100
Back River	1.2 - 10	100-1000
Chesapeake Bay	10 - 15	N/A

There are several areas of wetlands on and/or adjacent to the site (Figure 8). In the area of Herring Run near the original landfill, riverine beach bar and palustrine emergent wetlands are present. Estuarine emergent and palustrine scrub/shrub wetlands border Redhouse Run; the former are also found next to Herring Run and the Back River. The unnamed, on-site stream is surrounded by palustrine emergent wetlands. The wetland frontages for the surface water migration pathway are as follows:

Surface Water Segment Wetlands Frontage (miles)

Unnamed onsite stream	0.6
Herring Run-Back River	1.0
Back River	4.3
Chesapeake Bay	1.3

3.3 Soils

Three different soil types are recognized at the site. These are alluvium, loamy and clayey land, and man made land. The man made land consists of debris dumped into marshy areas. This type of land is so variable in its nature that a detailed study would be necessary to determine its characteristics. Alluvium consists of soil material washed from uplands and deposited on flood plains. This type of land is usually poorly drained and subject to frequent flooding. The loamy and clayey land has a hydraulic conductivity from 1.4x10⁻¹ to 4.45x10⁻³ cm/sec, and an available water capacity that ranges from 0.12 to 0.24. The pH ranges from 4.0 to 5.0.2

3.4 Geology

3.4.1 Physiographic Province

The 68th Street Dump is located in the easternmost of the Maryland physiographic provinces, the Coastal Plain province. This Province is characterized by layers of unconsolidated sediments that range in thickness from 8,000 feet at the Atlantic coast to zero feet at the border of the adjoining Piedmont province. At the surface lies a veneer of Pliocene, Pleistocene and Holocene epoch sediments. Underlying these surficial sediments are older Tertiary through Cretaceous unconsolidated sedimentary strata that slightly dip and thicken towards the southeast. The oldest of these sediments, the

Paturent Formation, overlies the crystalline bedrock of the Piedmont complex. The border between the Piedmont and the Coastal Plain provinces, called the Fall Line, although hard to delineate, lies approximately one mile northwest of the site. All the Coastal Plain formations subcrop in northeast-southwest striking belts.

There are five lithologic formations that are related to the site (Figure 9). These are, from oldest to youngest, the Piedmont complex, the Patuxent, the Arundel Clay, the Patapsco, and the recent deposits. The Patuxent, Arundel Clay and Patapsco are often described together as the Potomac Group. This grouping of these three formations is significant because they were deposited in a river-delta environment. This means that individual lithologic units are not readily traceable, even over short distances, because the sediments have little lateral continuity. The geologic map of Baltimore County shows all five formations outcropping at the site (Figure 10). All these formations are described here in general terms. ""

The Piedmont Basement Complex consists of metamorphosed sedimentary and igneous rocks. Any porosity found in this formation is secondary in nature, that is, porosity is due to fracturing within hard rock. The basement can be considered an aquiclude in this area. It is difficult to estimate the depth to bedrock at this site without a seismic survey. Basement depths could extend anywhere from 20 feet in the eastern portion of the site to close to 300 feet in the western end of the site. 21,23,45

The Patuxent consists of a quartz-rich sand and gravel, interbedded with discontinuous lenses of clayey silt. Iron oxide cementation is common in the outcrop area. In Baltimore County the formation outcrops in a zone one to four miles wide. 21

The Arundel Clay consists of variegated layers of clay with sand lenses. The clays are predominately illite and kaolinite.20

The Patapsco Formation consists of quartz sand, interbedded with lenses of kaolinite and illite clay.

The recent deposits include both Pleistocene, Pliocene, and Holocene epoch deposits. These consist of quartz sand, gravel, silt, and kaolinite and illite clay.

3.5 Groundwater

Groundwater is used by a small number of residents within four miles of the site for domestic purposes. Within 0.75 mile of the site there are about 4 to 6 groundwater wells (Section 3.1). There is no significant groundwater use upgradient. All the aquifers described here either outcrop at the site or downgradient of it.24

The Patuxent formation serves as the only significant aquifer in Baltimore County. Only a portion of this formation serves as an aquifer. The term Patuxent aquifer generally refers to that portion of the formation, i.e. a particular facies, which was deposited by braided streams and consists of coarse, well sorted sands and gravels that have high permeability. This aquifer was pumped extensively since the 1850s. In 1945 the potentiometric surface was mapped and several cones of depression identified. One of the most severe was in the Back River area immediately south of the dump site. Since that year, aquifer use has steadily decreased and by 1982 the potentiometric head had risen approximately 40 feet.

The drop in potentiometric head away from the outcrop area indicates that recharge is from that area, and initially from atmospheric precipitation. The presence of surface water in the outcrop area indicates that this is also a likely source of recharge for this aquifer. One estimate, based on a regional digital simulation, gives recharge to the Patuxent at 2 inches per year. The cumulative sand thickness of this aquifer, deduced from gamma logs, probably does not exceed 200 feet in thickness. Transmissivity in the site area was determined at 2270 feet squared per day increasing to over 4000 a mile south of the site. Storativity for the whole aquifer ranges from 0.00019 to 0.000038.

The Arundel Clay serves as a confining layer for the Patuxent. Well logs from the site area indicate this layer extends from 60 to over 150 feet within a half mile of the site (Appendix K). As mentioned above this unit outcrops in the area and hence does not exist in the area where the Patuxent outcrops, i.e. those areas where the Patuxent is unconfined (see Figure 9 cross-section). In some areas under the Harbor area of Baltimore the Arundel has been breached. This provides a conduit through which water may discharge into or out of the Patuxent aquifer. 21.23.25

The Patapsco aquifer coincides with the sand facies of the Patapsco formation. In Baltimore County this includes almost the entire Around the turn of the century this aquifer was formation. extensively used, however because the Patapsco subcrops extensively underneath the Patapsco River, chloride contamination became a major problem in the early part of the century. Currently there is no major use of this aquifer in the County. Where the potentiometric head is greater in the Patuxent than in the Patapsco there is leakage from the Patuxent through the Arundel to the Patapsco. The converse is true where the head is greater in the Patapsco, otherwise recharge is from the surface. This aquifer probably does not exceed more than a few feet in thickness in the site area, where it is even present. Where it is present it is indistinguishable from recent surface sediments.20

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The recent sediments, as stated above, form a veneer over the formations of the area. These sediments, for the most part, do not obstruct the flow of groundwater to underlying formations.23

3.6 Meteorology

The net annual precipitation is eight inches. This is based on an annual precipitation in the site area of approximately 42 inches and a mean annual lake evaporation of approximately 36 inches. The two year 24 hour precipitation is 3.5 inches. 26.27.28

3.7 Nearby Land Use and Population Distribution

An estimated 167,028 people live within a four mile radius of the site. 7.17 The distribution of this population is given in the table below:

Distance Ring (Miles)	Population
0 - 1/4	261
1/4 - 1/2	753
1/2 - 1	4119
1 • 2	24911
2 • 3	53302
3-4	83682
TOTAL	167028

An additional 104 employees are estimated to work onsite

This population estimate was obtained by counting houses on USGS topographic maps, and from census data for Baltimore City and Baltimore County. The average number of persons per dwelling is 2.4 for Baltimore City, and 2.5 for Baltimore County, based on 1990 census data. The information taken from the topographic maps was updated by comparing the percentage of change in population between 1970 and 1990.

The nearest regularly occupied building to any source at the site is Browning-Ferris Industries, which employs approximately 100 people. Also, about four employees of Baltimore County were working at the Pumping Station during site sampling. 15,31

There are no persons known to be living, or attending school or day care within 200 feet of any area of contamination. However, there are many signs of trespassing on the site property.

There are an estimated 23 acres of palustrine emergent, forested and scrub/shrub, and estuarine beach bar and emergent wetlands onsite, and four additional acres of palustrine forested and scrub/shrub within 0-1/4 mile. There are about 12 acres of riverine beach bar and estuarine emergent wetlands within 1/4-1/2 mile of the site. No terrestrial sensitive environments are known to exist onsite. During the site visits, a variety of fauna including songbirds, waterfowl, fish, groundhogs, and turtles were observed.

4.0 Waste Description

Sources on the 68th Street Dump Site include former landfills, areas of open burning and dumping, and a former radio transmitter station.

The first landfill, which is approximately 22 acres and part of current Parcel 340 (Appendix A), was operated by Robb Tyler who held State Refuse Disposal Permit 11. Wastes handled at the landfill from about 1953-1956 were predominantly industrial. Photographs and inspection reports covering the active period of the landfill show and describe numerous waste oil pits and drums, and dumping of unknown wastes from vacuum trucks. During the site visits for this study, empty drums, appliances, cars, an old crane, and trash were observed. It is evident that this area is still being used by trespassers for waste disposal.

In 1956, Mr. Tyler's waste disposal operations shifted to an area that he leased from Industrial Enterprises (Appendix C). This landfill, which operated under Permit 19, was not considered in this study. It appears to have been evaluated in the Site Inspection for Industrial Enterprises, Inc. (MD-184).³²

From 1957 to about 1961, a third disposal operation occurred on property owned by Mr. Tyler that included Parcel 151. Mr. Tyler was issued permits 24 and 60-34-0374 (Section 2.2). Activities here included landfills, incineration of unknown wastes and spreading hot ash on the nearby land, and the disposal of 55-gallon drums containing volatile organic compounds and heavy metals which were removed in 1984-1985.

A final permit issued in 1965 (65-33-0717) authorized Mr. Tyler to operate a sanitary landfill near 66th Street. The exact location of the landfill is unknown. It was apparently a shallow landfill shaped in a "U" that extended around the radio towers. 16 The types of waste disposed here are unknown.

Phase I Site Assessments performed for Allied Media by Radian Corporation in 1991 state that there was no evidence of leaks or spills of PCB-containing oils from the radio towers. However, no sampling was done during the Assessments to confirm these

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observations (Appendix G). During the PI-ESI, the dense vegetation made any reliable observations impossible.

A former radio transmitter building for WEBB Radio Station is onsite and houses empty transformers and two 10-gallon containers of PCB-contaminated oils. WEBB is currently owned by Allied Media, who leases the property from Mt. Clare Properties, Inc. These wastes are to be removed in 1993 and a copy of the manifest will be sent to MDE. During the site visits, the building was surrounded by electronic debris, and there was a broken white pipeline containing electrical cables that ran from the building toward the towers.

Also evaluated as a part of this study is the former R.M. Winstead Site (MD-133) that was active in the mid-1970's as a waste oil recycling facility. The general area of this site was also the former location of the La Crosse Chemical Company, which produced resins, and the Maryland Brass and Metal Works. The waste disposal practices associated with these two facilities are unknown. An earlier study of MD-133 indicated the presence of arsenic, mercury, lead and other heavy metals in onsite soils and sediments. Ourrently, the 3.5-acre site is leased by M.F. Winstead, who uses it for storage of trailers. During the site visits, sizeable quantities of debris and a large pile of gray slag were also seen.

Browning-Ferris Industries (BFI), a refuse collection business; leases Parcel 151 and/or Parcel 403 from the Tyler family. However, BFI's operations have not involved onsite disposal, storage, or handling of hazardous wastes since it purchased Robb Tyler, Inc. and began leasing the property in 1972. Trash trucks are washed onsite, which may contribute to some soil contamination.

Open dumping of wastes was also observed on Parcel 405, especially near the railroad tracks. Evidence of illegal burning (grey ash), stained soil, and dead vegetation were observed as well (see photodocumentation).

Parcels 9 and 213 were not sampled during this study because the dense vegetation made a thorough reconnaissance impossible. There is no known information available to verify that the disposal of hazardous wastes on these properties occurred at present. However, on December 21, 1993, the Project Manager and Project Geologist did a reconnaissance of these two parcels in an effort to determine if hazardous wastes are present. No evidence of hazardous waste on Parcel 9 was observed, although nuisance dumping is a problem. On Parcel 213, deteriorated drums and pails and blue-stained waste were observed, as well as nuisance dumping. The blue-stained waste may correspond to sample AOC-RT-005 collected during the Preliminary Assessment (Section 5.1.2). The terrain is also uneven on Parcel 213, but it was not possible to determine if this is due to former landfilling or simply natural processes.

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- 5.0 Site Sampling
- 5.1 Previous Studies

5.1.1 Site Inspection

A Site Inspection of the 68th Street Dump conducted by the NUS Corporation included the collection of nine aqueous and solid samples from an on-site well, soil, and sediments and surface water in August, 1984. The location of these samples and the media from which they were taken is shown in Figure 7.

An on-site well at Browning-Ferris Industries (BFI) was sampled and contained no contaminants at levels of toxicological concern. Water from this well is used to wash company vehicles and by employees washing their hands; it is not used for drinking.

An aqueous sample collected from an on-site pond was contaminated with the following substances ($\mu g/L$): trichloroethene (8.4), chromium (58), copper (66), lead (199) and zinc (240). A pond sediment sample also contained chromium (67.5 mg/Kg), lead (246 mg/Kg), zinc (151 mg/Kg), arsenic (0.69 mg/Kg), and nickel (22 mg/Kg). The levels of copper, lead, zinc, and possibly chromium (if present as Cr+6) exceed the Ambient Water Quality Criteria (AWQC) recommended for the protection of aquatic life. Organic contaminants commonly associated with urban areas that were present in the pond sediment were PAHs (to 811 $\mu g/Kg$) and phthalates (to 2500 $\mu g/Kg$).

A small water body referred to in the SI as "pond discharge" leading from the pond to Herring Run was also sampled. No significant contamination was detected in an aqueous sample, but PAHs including benzo(a)anthracene (510 μ g/Kg) and benzo (b or k) fluoranthene (1100 μ g/Kg) were present in a sediment sample, as well as 23 μ g/Kg of dieldrin. Zinc and nickel were also detected at 93.8 mg/Kg and 10.8 mg/Kg, respectively, in the sediment sample.

A soil sample designated as Auger 1 was taken at the site. The exact location of this sample is unclear due to conflicting information in the SI Report. Contaminants found in this sample included Arochlor 1242 (a PCB) (2000 μ g/Kg), lead (1370 mg/Kg), and zinc (1300 mg/Kg). A composite soil sample was also collected from a waste ("parking") pile near the BFI facility and contained elevated levels of PAHs and phthalates, including benzo(a)pyrene (8800 μ g/Kg).

Aqueous and sediment leachate samples were collected adjacent to what appears to be an on-site drainage ditch to Herring Run. The sediment sample contained PAHs to 2300 μ g/Kg (benzo b or k fluoranthene) and 211 mg/Kg of lead.

Contaminants of potential toxicological concern in this study are Arochlor 1242 and the pesticide dieldrin. Both of these contaminants are persistent, toxic, and potentially carcinogenic. Additionally, PAHs such as benzo(a)pyrene and benzo(a)anthracene have produced tumors in laboratory animals. Noteable levels of lead and zinc were detected in soil, leachate, and pond samples. Leaching of these and other contaminants into underlying groundwater and other surface waters near the site is therefore possible. Residents in the immediate vicinity of the site do not use groundwater for potable purposes. However, as stated previously, there is a potential for adverse effects on aquatic life located in surface waters near the site.

Sampling for the site inspection was not conducted in all areas of the site where disposal had occurred. Therefore, additional sampling was done by the Maryland Waste Management Administration (MDWMA) in the subsequent preliminary assessment.

5.1.2 Preliminary Assessment

Sampling was conducted by the MDWMA in February, 1985 at the locations shown in Figure 6. Most samples collected were from exposed drums and surface deposits of wastes exposed by erosion of the landfill. However, no samples were taken to characterize the sources, or from on-site wetlands and nearby fisheries.

The samples collected during the PA, and the materials that were sampled, are given in the following table.

Table 1

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Sample Number	Sample Description	· · · · · · · · · · · · · · · · · · ·
AOC-RT-001	Strading pool of water at base of Colgue Dump	
AOC-RT-002	Second good of water near Colgain Dump	
AOC-RT-003	Lencheta seep from left bank of Moore's Rus	
AOC-RT-004	Second example from above lecution	
AOC-RT-005	Stan/white surface sindige	
AOC-RT-006	Suspect chromium studge from dram	
AOC-RT-007	Surport chronium sindge from second drum	·
AOC-RT-008	Composite from refractory brick pile	
AOC-RT-009	Sine/white sait from exposed drugs	
AOC-RT-010	Sing maneral from exposed drum	
AOC-RT-222-1	Multi-colored material exposed by eresion	
AOC-RT-222-2	Bins powder exposed by erosion	
AOC-RT-222-3	Gray sing from exposed dram	

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AOC-RT-222-4	Yellow material from leadfill surface
Œ-001	Crushed 55-gailon dram in ground
IE-002	Second cranhed 55-gailon dram in ground
IE-003	Embeddet 55-gallon drum
Œ-004	Second embedded 55-gallon druis
IE-005	Stream bank along Herring Run

Samples AOC-RT-003 & 004, and IE-001 to 005 were analyzed for metals and volatile organic compounds. All other samples were analyzed for metals only.

The solid samples in which contaminants were detected and the levels present are identified below:

Table 2

Ignie 5	والتراجي والمراجع وا	
Sample Lieuwileanou	Contractment(s)	Concentration (units)
AOC-RT-005	total chromism lend	78.4 ppm° 29.7 ppm°
AOC-RT-006	chroming+6 lend	231 ppm** 56 ppm**
AOC-RT-007	chronium +6	19.7 ррж
AOC-RT-009	chromium arsens	2880 ppm° 3.6 ppm°
AOC-RT-222-2	lend	9.1 ppm **
AOC-RT-222-4	chronius+6 total chronius	4.0 рушь•• 7.4 рушь••
IE-001	aronnia chromana lend nickal zine	7.46 ppm* 48.3 ppm* 28.6 ppm* 2759 ppm* 51232 ppm*
TE-002	tolume ethyfbtspans total zylene cadmine chromine lead nickel	200 pple 310 pple 270 pple 89.8 ppm ^a 1835 ppm ^a 8105 ppm ^a 781 ppm ^a 317 ppm ^a
IE-003	lead zine	6.4 ppm." 245 ppm."
TE-004	tolusus sthylbuspens total Tylenes lend	2800 ppm 16780 ppm 92270 ppm 9.9 ppm ^a

IE-005	methyl ethyl ketona methyl imbutyl ketone	400 Mpb 74 Mpb
	copper chromium	97.3 ppm* 217 ppm*
	anesic lend	21.9 ppm* 850 ppm*
	sickel zinc	163 ppm*

*Total metal analysis in ppm

5.1.3 Level I Site Inspection Prioritization (SIP)

This study was done in May, 1992. It involved no sampling, but included a review of available information, a target survey and an identification of potential contaminants of concern. Based on the findings of this SIP, the Phase I ESI was authorized by EPA.

5.2 MDE/WAS Contract Laboratory Sampling

Before sampling the site, the MDE/WAS CERCLA Site Assessment Division submitted a sampling plan to the USEPA Region III in March, 1993. This plan was revised on May 14, 1993 to change the method of deep soil sampling (e.g. >2 ') from a drill rig to a hand auger due to the inaccessiblity of the rig by feasible means. This revision was approved by EPA on May 18, 1993. A final sampling plan reflecting all needed modifications has been prepared and submitted to EPA.

Samples were collected from the groundwater, sources, soil, and surface water on and near the site on June 2 and 3, 1993. These samples were collected and submitted for analysis as Case Number 20101 in accordance with the USEPA Contract Laboratory Program (CLP) Routine Analytical Services (RAS). The samples were analyzed for the Target Compound List (TCL) of organic compounds, including pesticides and PCB's and the Target Analyte List (TAL) of inorganic substances.

The samples were collected in four sample matrices: one organic aqueous, two organic solid, one inorganic aqueous, two inorganic solid. The Standard Operating Procedures for Field Operations contained in MDE's Quality Assurance Project Plan (Appendix B) were followed as appropriate.

CLP protocol was adhered to throughout the sample collection and submittal process (U.S. "User's Guide to CLP," Dec. 1988). The Quality Control (QC) used by MDE includes the submittal of a field duplicate for each matrix as defined above. Since a maximum of twenty samples are permitted per matrix, two duplicate solid samples were collected.

In addition, each matrix had one sample designated as the spike

^{**}Extraction Procedure (EP) toxicity metals in ppm

sample, which was collected at specified additional volumes in order to provide the laboratories sufficient sample volumes for CLP matrix spike QC procedures. Specifically, the following additional volumes, including both the spike volume and the corresponding spike duplicate volume, were be collected (volumes expressed as multiples of the regular sample volume of 1):

Sample Matrix	Spike Volume
Organic Aqueous	3
Organic Solid	2
Inorganic Aqueous	2
Inorganic Solid	1

Samples were shipped daily to the appropriate inorganic and organic labs. A field blank was prepared for the aqueous matrices. This blank consisted of deionized water provided by the Maryland Department of Realth and Mental Hygiene (MDHMH) Laboratory. This water was transported to the field in 5-gallon containers, and then transferred in the field on the first day of sample collection to the appropriate sample containers. An aqueous volatile organics analysis (VOA) trip-blank sample was included with the organic shipment on the second day. The trip-blank consisted of deionized water, fixed with HCL and contained in VOA sample containers.

The sample collection log is shown in the following tables, and the sampling locations appear in Figure 3.

	·	,	<u>_</u>		
Sample Number	OTTE	lURA.	Sample Lorentes	Sample Type	Reports
5W-1 5ED-1	CKW44 CKW18	MC/844 MC/818	Connect oc-rite stress - corth	equeren sediment	
25D-3 2A-3	CKW45 CKW19	MC/845 MC/819	Transport no-min strates - south	aqueum rediment	
%W-3 SED-3	CKW46 CKW20	MC1844 MC1820	Redhouse Ros (on-site)	aquenus sediment	orange stated leachate
5W-4 SED-4	CKW47 CKW21	MCJB47 MCJB21	Redbouse Rus NB of sits	square	heckground spike
SW-S SED-S	CKW48 CKW22	MCJB48 MCJB22	Herring Run East	stamen	
SED-4	CKW49 CKW23	MC1849 MC1823	Redbouse Run - Herring Run	rdesau	
5W-7 SED-7	CKW30 CKW34	MC/890 MC/824	Moore's Rue -	Hann	
SW-A SED-8	CKW31 CKW35	MC7851 MC3825	Mases's Res NW of site	references	heckground-refuse 100yd, spatrous
SW-9 SED-9	CKW32 CKW35	MCJR52 MCJR26	Herring Ros West - 1	aquerris	nrange-red stained sediment

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SW-10 SED-10	CKW53 CKW27	MCJB53 MCJB27	Herring Run Wost • 2	aqeeous	same as above and
SW-11 SED-11	CKW54 CKW28	MCIB34 MCIB28	Herring Run - south of Colgate Pay dump	udatom	heckground
SW-12 SED-12	CKW35 CKW29	MCJB55 MCJB29	Offsite drainage culvert	aqueous	entlected south
\$W-13 SED-13	CKW56 CKW30	MCJB36 MCJB30	SW-5 SED-5		duplicate
OW-I	CKW59	MCJB39	BFI Facility	relacons	hand pump
BLK-1	CKW37	MCJB37	N/A		field blank
BLK-TP1	CKW58	N/A	N/A		trip blank

Sample Number	OT R #	ITRA	Sample Location	Remarks
Soil-1°	CKW31	мства	First Inedfill sorth (creet)	see map 3
Soil-2	CKW32	MCJB32	First landfill gratesi	see map 3
Soil-3°	CKW33	MCJB33	First hadfill cratmi	see map 3
Snil-4	CKW34	МСЈВ34	First haddfill south oratral	
Soil-S*	CKW35	MCJR3S	North of Site (western side)	background
Soil-6*	CKW36	MC1B36	North of Site (western, side)	background
Sail-7	CKW37	MC1837	Bartern landfill	
Sail-8	CKW38	MC2B38	Eastern landfill	
Snil-9*	CKW39	MC1839	Small sheadneed building (PCSa)	
Soil-10	CKW40	мств40	M.F. Winstead Company, Inc.	
Soil-11°	CKW41	MCJB41	Browning-Ferrin Industries (BFI) cont	crom/musite
Soil 12°	CKW42	MCJB42	BFI (Weni)	
Soil 13°	CKW43	MCJB43	Soli 1	duplicate
Soil 14*	CKW60	MCJB60	Broken pipeline- behind building .	
Soil 15°	CKW61	MC7861	7.405, sorth redio	
Soil-16°	C'KW62	MCJB62	Dowshill Soil 4	composite to 2'

[&]quot;collected at a depth of less than two feet

Soils-1/13,3,6,11, and 16 were to be collected at a depth greater than two feet. However, due to impenetrability (1/13 & 6), refuse (3,11), and water (16), this was not practicable.

The samples were packaged onsite and transported to Federal Express on each day of collection for shipment to the following laboratories:

Organic Matrices

Envirosystems, Inc. 9200 Rumsey Road Suite B102 Columbia, Maryland 21045 Attn: Susan Pearce/Lisa Lazzell (410) 964-0330

Inorganic Matrices

Skinner and Sherman 300 Second Avenue Waltham, Massachusetts 01605-2647 Attn: David Toupin (508) 753-3738

The field blank BLK-1 did not contain any organic contaminants at reportable levels; the trip blank, BLK-TP1 contained methylene chloride (4 ug/L J). Where the level of methylene chloride in site samples exceeded 10X the level detected in the blank it was reported.³³

The following inorganic substances were detected in BLK-1 (units in ug/L): Al (1720), Ba ([5.8]), Ca ([1320]), Fe (207), Mg ([395]), Mn (45.4), Na ([380]), and Zn ([13.1]). These substances were likewise present in some of the samples; the detected levels are reported in Attachment I. 34

A discussion of the quality control laboratory blanks is included in Attachments I and II. The concentrations of contaminants in the laboratory (method) blanks were compared to those in the aqueous and solid samples collected. In Tables 1 - 5, each of the contaminant that exceeded 3X the background level is notated with an asterisk.

5.2.1 Groundwater Samples and Results

One groundwater sample (GW-1) was collected from a hand pump on the BFI parking lot. This pump, a Simmons Frost Free Yard Hydrant, draws water from a well located east of the access road near the northern boundary of the BFI property. The total depth of the well is about 125.' Water from the well is used for washing vehicles and

by BFI employees washing their hands but not for drinking. It was sampled during the NUS SI done in 1984; at this time no contaminants were identified at levels of concern.

The purpose of sampling this well during the present ESI was to determine if migration of contaminants to groundwater has occurred that might pose a threat to worker health via dermal and inhalation exposure. There were no known domestic wells within a two mile radius of the site from which to collect a suitable background sample.

No organic contaminants in GW-1 were detected substantially above the level reported in laboratory or field blanks. Inorganic substances detected (ug/L) are: barium (49.6); calcium (10000); potassium (2910); magnesium ([2030]); and sodium (118000).

Sampling of four residential wells was performed by the Baltimore County Department of Environmental Protection in September, 1993. The samples were analyzed by the Maryland Department of Health and Mental Hygiene (MDHMH) Gas Chromatography-Mass Spectrometry and Multi-Element Laboratories. The results are given in Appendix K. One well contained 70 parts per billion (ppb) of lead, which exceeds the action level of 15 ppb. This well will be resampled and the sample analyzed for lead.

5.2.2 Surface Water Samples and Results

Twelve (12) aqueous and sediment samples (designated SW/SED 1-12) were collected from different locations to determine if contamination of nearby or onsite wetlands and/or fisheries has occurred. SW/SED 13 was a duplicate of SW/SED 5, and SW/SED 4 was the matrix spike sample.

The results for the inorganic sediment and aqueous samples are given in Tables 2 and 3, respectively (ug/L), and in Attachment I. SW-1, which was collected from the unnamed onsite stream, contained eight contaminants at levels which were greater than 3X the background samples. These included arsenic (6.8K), copper (59.5), iron (12600) and lead (157). SW-2 and SW-9 contained cyanide in concentrations of 45.2 and 35.8 ug/L, respectively.

Cadmium, copper, lead, and cyanide exceeded the Ambient Water Quality Criteria (AWQC) for the protection of aquatic life from acute and chronic toxicity in one or more aqueous surface water samples. Iron exceeded the AWQC of 1000 ug/L in five aqueous samples (Table 3).

Mercury was present in sediment samples at greater than 3X background levels in the following samples (mg/kg): SED-1 (0.55), SED-2 (0.21), SED-5/SED-13 (0.69/0.46), and SED-6 (0.28). Elevated levels of lead and arsenic were detected in SED-1 and SED-5/SED-13

(Table 2).

No organic contaminants were detected in aqueous samples significantly above field blank levels, or above the contract required method detection limits.

Organic contaminants detected in sediment samples at concentrations (ug/kg) greater than 3X the background sample(s) include (Table 5):

Sample Numbers PAHs

SED-1,2,5/13,6 Benzo(a)Anthracene Fluoranthene Chrysene

SED-9 Toluene

SED-1 & 2 Benz(a)Anthracene
Benzo(a)Pyrene
Benzo (g,h,i)Perylene
Fluoranthene

Indeno (1,2,3-cd)Pyrene

Phenanthrene

Pyrene

bis(2-Ethylhexyl)phthalate

SED-7 Methoxychlor

Therefore, observed releases and actual contamination were established for a fishery, and for wetlands (Figures 3 & 8).

5.2.3 Soil/Source Samples and Results

The site is located near residential and commercial areas in an urban setting. Many signs of trespassing, especially illegal dumping, were observed.

Four landfills at this site apparently received unknown types of industrial wastes from Baltimore that have never been completely characterized. These landfills are located in or near marshy areas and close to on-site surface waters. The depth to which the landfills were excavated is unknown, but the depth to the groundwater at the site has been estimated to range from <10-30.' In general, the direction of shallow groundwater flow is toward the surface waters.

A total of 16 soil samples were collected, including two background samples and one duplicate sample.

The background samples, SOILS-5 and 6 were collected from a small isolated field owned by Baltimore County located just northwest

(upgradient) of the site and the CSXT railroad tracks. Maximum levels of inorganic substances (mg/kg) include arsenic (3.9L), lead (201J), mercury (0.28), chromium (29.3J) and zinc (77.0) (Table 1). Bis(2-Ethylhexyl) Phthalate (140J ug/kg) and benzo(b) fluoranthene (170J ug/kg) were the only organic contaminants detected (Table 4).

Six samples [(SOILS-1/13 duplicate),2,3,4 and 16] were collected from the original landfill. Two samples were taken from the second (eastern) landfill on the Tyler property which is also identified as the "island area" (SOIL 7 & 8). SOIL 12 was collected close to the BFI building, and SOIL 11 was taken from the shallow landfill on property leased by BFI.

There is a small abandoned transmitter station located in the north-central area of the site on Parcel 405. SOILS-9 and 14 were collected here, mainly to determine the presence of PCBs, which were handled at this location. 30

A second facility, the 3.5-acre R.M. Winstead site (MD-133) is also present on the northeast corner of the 68th Street Dump property. The Winstead facility is supposedly located on or near the property where the former La Crosse Chemical Company building once stood before it was destroyed by fire in the early 1970's. It is also near the former Maryland Brass and Metal Works building. From about 1978-1986, Mr. Winstead leased the property for operation of his waste oil collection business from Chessie Systems Railroads (CSX Transportation). SOIL-10 was collected near this former facility, which is near Redhouse Run.

SOIL-15 was collected in the vicinity of the shallow landfill around the radio towers that was active in the mid-1960's, and may correspond to the "dump" area designated on the 1964 aerial photograph of the site. Stained soil and dead vegetation were present at this sampling location.

Tables 1 and 4 contain the data for the 14 soil samples collected to characterize the sources and/or the potential for human exposure from trespassing or working onsite.

Inorganic substances detected at levels greater than 3X background levels in two or more site samples include antimony (SOILS-1/13,3,9,11), arsenic (SOILS-2,3,9,11), cadmium (SOILS-1/13,3,7,8,9,11,12,15), lead (SOILS-3,9,11,15), mercury (SOILS-1/13,7,11,15), zinc (SOILS-1/13,2,3,7,8,11,12,15,16) and cyanide (SOILS-11,15). SOIL-4 contained no substances at greater than 3X the background concentrations.

The primary organic contaminants of potential concern include Arochlor-1260 (SOIL-3,8,9,11), benzene (SOIL-11), methylene chloride (SOIL-8,11), benzo(b)fluoranthene (SOILS-1/13,2,11,12,14,15,16), benzo(a)pyrene (SOILS-2,11,13, 14,16),

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carbon disulfide (SOIL-7), chlordane (alpha and gamma) (SOILS-1/13,2,3,4,8,9,11,12), dieldrin (SOILS-7,15), tetrachloroethene (SOILS-3,11), and 4,4'DDT (SOILS 3,9).

6.0 Toxicological Evaluation

Summary

The 68th Street Dump is located just over the eastern city line of Baltimore near Pulaski Highway. It includes parcels of land formerly used as permitted landfills, and where past and current open dumping has occurred.

The nearest residences are located in Maryland Manor on the northwestern border of the site, and in Chesaco Park to the east of Redhouse Run. Commercial businesses are present on the north-central side of the site and south of Herring Run, along Quad Avenue.

There is one on-site well used by employees of Browning-Ferris Industries (BFI) for washing their vehicles and hands. It is not used for potable purposes. There is also a monitoring well located near the western side of the site that was drilled during the SI for the adjacent Colqate Pay Dump in 1984.

An estimated 138 people located within a one mile radius of the site obtain drinking water from groundwater sources. About 15 people located 0.5 - 1.0 mile southeast of the site are served by 6 residential wells; five of these are located on Philadelphia Avenue. However, there are no known domestic wells within a two mile radius of the site from which to collect a suitable background sample. The vast majority of the residents within a four mile radius obtain their water supply from Baltimore municipal systems.

There are 6 surface water bodies on the property. The largest, Herring Run, is a fishery which empties directly into the headwaters of the Back River. There is evidence of recent trespassing, open dumping and fishing in Herring Run. The Back River is used for fishing for human consumption.³⁹

In this investigation, samples were taken from surface water, groundwater, sediment and soil to identify the extent of contamination on and around the site. No contamination of the groundwater sample obtained at the pump used by BFI employees at levels of toxicological concern was identified.

Lead, iron, chromium, copper, cyanide, and zinc were detected in surface water samples at levels that exceeded the Ambient Water Quality Criteria (AWQC) for the protection of aquatic life from acute or chronic toxicity. Of potential concern is iron in aqueous samples, and both iron and lead in sediments at levels that exceed the EPA benchmarks for these substances. Sediment samples

contained elevated levels of beryllium, lead and benzo(a)pyrene above EPA benchmarks for soil.

Soil sampling showed elevated levels of arsenic, beryllium, cadmium, chromium, copper, lead, manganese, polycyclic aromatic hydrocarbons (PAHs), and dieldrin above the EPA benchmarks. Lead was found in S-3 (2680 mg/kg), S-9 (2990 mg/kg) and in S-11 (1530 mg/kg), at levels that exceed EPA's target concentration of 500-1000 mg/kg in soil at hazardous waste sites. Exposure to lead in soil at these levels could pose a health risk to trespassing children.

The potentially exposed populations of greatest concern are trespassers and workers at BFI. No wells are used for drinking water at BFI or in the nearby communities. Therefore, exposure pathways relevant to this site are through ingestion of soil by trespassers and workers at BFI, and ingestion of fish caught from the fishable streams which border the site.

In the exposure scenario that was used for the site, the following assumptions were made to estimate worst-case exposure to soil and sediment by a site trespasser: a child trespasses on the site 150 days per year over an eight year period (ages 10 through 17), has an average body weight of 52 kg over the period, and ingests 100 mg of soil per day. 4

Based on the above assumptions, exposure to contaminants in sediment and soils resulted in a hazard index (for noncancer health risk) which was less than one (0.57). The total estimated cancer risk (2.4E-6) was also within the EPA's acceptable range of 1.0E-06-1.0E-04.

Of special concern is the impact of this site on wildlife, wetlands and the aquatic environment around and downstream of the site. It is known that the site is used for fishing by area residents. As shown in Figure 8, the site harbors two different types of wetlands including palustrine emergent and estuarine emergent areas. substances were detected in surface water in concentrations exceeding chronic Aquatic Water Quality Criteria (AWQC) for fresh water organisms. These include: chromium, copper, iron, lead and cyanide. Mercury was found in sediment samples in an on-site stream and in Herring Run. Although the levels of mercury are below the EPA benchmark for soil, this metal biomagnifies in fish and other aquatic organisms. There are no EPA benchmarks for sediment. Consequently, the potential for adverse ecologic effects, as well as adverse health effects to individuals ingesting fish, does exist. Data are currently insufficient to estimate the health risk to humans resulting from the consumption of fish in nearby streams. To estimate this risk, a quantitative analysis of mercury in fish tissue will be performed.

II. Supporting Data

A. Groundwater

A groundwater sample was taken from the well located on the BFI property, known to be used for washing of vehicles and by employees washing their hands. It is not used for potable purposes. No inorganic or organic contaminants at levels of toxicological concern were detected in the sample collected for this study (GW-1), or in the sample taken during the NUS SI.

B. Sediment

Among the sediment samples collected on-site, sample SED-1 collected downstream of the on-site pond and near BFI had some of the highest levels of inorganic contaminants. Lead was found to be elevated above the EPA's benchmark level in this sediment sample. Benzo(a)pyrene was found to be elevated in SED-2 taken from the unnamed stream coming from the pond. Beryllium was also found in SED-12 taken from a drainage culvert that empties into the south side of Herring Run, opposite the original Tyler landfill. SED-12 is a background sample, suggesting that this contamination is unrelated to the site. It should be noted that although exposure to sediment is assessed using the trespassers scenario, the scenario is more appropriate for use with soils as it is unlikely that exposure to sediment would occur with the same frequency and to the same degree as soil.

Lead

Lead is a naturally occurring inorganic element that is found in almost all soils and sediments; natural levels in soils in the eastern U.S. average 10 to 20 parts per million.47 symptoms of lead toxicity depend on lead concentrations in the tissue and the age of the individual. Chronic exposure to low levels of lead can interfere with the blood forming and reproductive systems, kidney function and metabolism, and produce subtle effects on personality, memory, learning, reaction time, psychomotor function, and motor coordination. Infants and young children are very sensitive to the toxic effects of lead on the nervous system. Impaired neurological development has been observed in children exposed to relatively low concentrations of At higher concentrations, lead is toxic to the central nervous system and can produce neurological motor dysfunction.40 The EPA suggests that a target range of 500-1000 mg/kg for hazardous waste sites is acceptable. There is no oral RfD for inorganic lead so a daily exposure dose is not calculated.

Beryllium

Beryllium exposure can cause a number of adverse health effects that are well documented although its health effect on specific organ systems is unknown. The route of exposure most likely to produce adverse health effects is through inhalation. toxicity usually resulting from exposure to large quantities such as during a spill, cause a distinct clinical entity called acute beryllium disease. With chronic exposure, a hypersensitivity occurs forming granulomas in lung tissue that are part of a syndrome called chronic beryllium disease. The effect of chronic exposure to low levels of beryllium on many organ systems, is unknown. Of note, ingesting low doses of beryllium does not appear to cause any adverse noncarcinogenic health effects.41 Beryllium is classified by the EPA as a group B2, probable human carcinogen. The USEPA's oral slope factor for beryllium is 4.3 (mg/kg/day).1. Given the exposure scenario and a concentration of 1.9 mg/kg found SED-12, the excess lifetime cancer risk associated with beryllium exposure from sediment is 1.0E-7. This value does not exceed the EPA's acceptable risk range.

Polycyclic aromatic hydrocarbons (PAH's)

This group includes compounds that are both naturally occurring and formed by man during incomplete burning of coal, oil and gas, garbage, or other organic substances. There are over one hundred and fifty known PARs. Exposure routes of concern include dermal contact and incidental ingestion, as well as possible, yet limited inhalation of fugitive dust. Because there are so many PAR compounds of similar chemical and physical properties, comparison values are only available for a representative group that have been studied collectively. These compounds are:

acenaphthene
acenaphthylene
anthracene
benz(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(ghi)perylene
benzo(k)fluoranthene

chrysene
dibenzo (a,h) anthracene
fluoranthene
fluorene
indeno (1,2,3-cd) pyrene
phenanthrene
pyrene

The following compounds have been shown to cause cancer in laboratory animals when administered orally (via food), dermally (on the skin), and by inhalation through air: benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene. Studies of long-term human exposure by inhalation have also shown elevated cancer associated with PAH exposure. Of these contaminants, benzo(a)pyrene is the most extensively studied and is thought to be the most potent carcinogen. 42

Of the sediment samples taken on the site, sample SED-2 taken from the small stream coming from the pond contained levels of benzo(a)pyrene at 700 micrograms/kg. This is elevated above the EPA benchmark. Given the exposure scenario listed and an oral slope factor of 7.3 (mg/kg/day), this would result in a excess lifetime cancer risk of 4.7E-8. This level does not exceed the EPA acceptable risk range for carcinogenic health effects.

C. Soil

A number of areas throughout the site were found to be contaminated with both inorganic and organic chemicals. As in the sediment samples, lead, beryllium and a number of polycyclic aromatic hydrocarbons were detected. Arsenic was found in the samples taken from the original Tyler landfill (S-2 and S-3) and the shallow landfill on BFI property (S-11) at levels exceeding the EPA benchmark. Other metals found in on-site soils in concentrations which exceed EPA benchmark levels include cadmium (S-3), chromium VI (S-15), copper (S-1, S-2) and manganese (S-2, S-3). Dieldrin was also found in the U-shaped landfill surrounding the radio towers (S-15) and PAH's in one sample that came from the shallow landfill on BFI properties (S-11).

Beryllium

Beryllium was found in a soil sample taken from property next to BFI (S-12) at levels exceeding the EPA benchmark for this substance. Given the exposure scenario listed above, the level of 1.7 mg/kg found at site S-12 and an oral slope factor of 4.3 (mg/kg/day) would result in an excess lifetime cancer risk of 1.1E-7. This value does not exceed the EPA's acceptable lifetime excess risk for carcinogenic health effects.

Cadmium

The highest concentration of cadmium detected in any of the soilsamples was a level of 101 mg/kg in a sample (S-3) taken from the
central section of the original Tyler landfill. Cadmium was also
detected in 10 other on-site soil samples; however, it was not
detected in the background sample. In humans, the main target
organs for cadmium toxicity include the lungs (when inhaled), and
the kidney and bones (ingestion). Cadmium is classified as a
probable human carcinogen (Group B1) by the U.S. EPA, and is
associated with an increased risk of lung cancer in workers
chronically exposed by inhalation. The EPA has developed two oral
RfDs for cadmium: a value of 5E-4 mg/kg/day based on human exposure
to cadmium in water, and a value of 1E-3 mg/kg/day based on studies
of humans exposed to cadmium in food. Assumed oral exposure to the
highest level of cadmium in soil detected on the site results in a

hazard quotient that is less than 1 (0.16).

Chromium

Chromium was detected in one soil sample (417 mg/kg) at concentration which exceeded the EPA benchmark level (S-15). toxicity of chromium depends on its chemical form, with the hexavalent form (Cr VI) considerably more toxic than the trivalent form (Cr III), which is an essential nutrient for humans. Cr VI is classified by the EPA as a known human carcinogen (Group A), having caused lung cancer in workers who were exposed to airborne chromium compounds for a relatively long time period. Oral exposure to sufficiently high levels of chromium can cause damage to the kidneys, and exposure to relatively small amounts of Cr III or Cr IV can cause allergic skin reactions in sensitive people. The EPA has developed an RfD for Cr VI of 5E-3 mg/kg/day, based on a no effect level in rats exposed to chromium in drinking water for 1 year.2 Assumed oral exposure to the highest level of chromium detected in on-site soil results in a hazard quotient that is less than 1 (0.07).

Copper'

Copper is a naturally occurring metal which is an essential nutrient in humans. Exposure to sufficiently high levels of copper can cause adverse health effects. Two on-site soil samples (S-1 and S-2) had copper levels which exceeded the EPA benchmark level. EPA has developed an unofficial RfD for copper of 3.71E-2. Assumed oral exposure to the highest level of copper in on-site soil results in a hazard quotient of 0.01.

Lead

Lead was found at the original Tyler landfill (S-3) at a concentration of 2680 mg/kg, at the small abandoned building on the north-central side of the site (S-9) at a concentration of 2990 mg/kg, and at the shallow landfill on BFI property (S-11) at concentrations of 1530 mg/kg. These levels exceed the EPA target range for hazardous waste soil of 500-1000 mg/kg. There is no oral RfD for inorganic lead so a daily exposure dose is not calculated.

Manganese

Manganese was detected in two on-site soil samples (S-2 and S-3) in concentrations which exceed EPA's benchmark level with the highest concentration an estimated level of 2060 mg/kg. Manganese toxicity has been observed in workers exposed to high levels of airborne manganese, with effects primarily on the central nervous system

(e.g., emotional disturbances, unnatural movement). Similar effects have been observed in people exposed to elevated manganese levels in drinking water. The EPA has developed an RfD of 5E-3 mg/kg/day for manganese based on a no-effect level for human exposure to manganese in water. Assumed oral exposure to the maximum level of manganese found on the site results in a hazard quotient of 3.3E-1.

Polycyclic Aromatic Hydrocarbons (PAHs)

PAHs were also found in soil samples. Levels that exceeded the EPA benchmark were consistently found in the sample taken from the shallow landfill on BFI property (S-11). Since 5 different PAH's were elevated for this sample, the cumulative dose is tabulated below.

Poly Aromatic Hydrocarbon	Detected [] (micrograms/kg)	Relative Potency	Equiv. B(a)P () (micrograms/kg)
Benzo(a)anthracene	11,000	0.145	1,595
Benzo(&)pyrene	8,800	1.000	8,800
Benzo(b) fluoranthene	20,000	0.140	2,800
Dibens(a,h)anthracene	1,500	1.110	1,665
Indeno(1,2,3,c,d)pyrene	4200	0.232	974
Total			15,834

^{*} estimated value

Applying this cumulative dose to the exposure scenario and oral slope factor of 7.3 (mg/kg/day) results in an excess lifetime cancer risk of 1.1E-6. This value does not exceed the EPA acceptable excess risk range of 1.0E-4 - 1.0E-6 for carcinogenic health effects.

Arsenic

Inorganic arsenic has been recognized as a human poison since ancient times, and large doses can produce death. Lower level exposure may produce injury in a number of different body tissues. The common effects from ingesting arsenic are stomach irritation, pain, nausea, vomiting and diarrhea. Prolonged exposure may cause decreased production of red and white blood cells, abnormal heart function, liver or kidney damage and impaired nerve function. The most characteristic effect of arsenic exposure is a pattern of skin abnormalities including the appearance of dark and light spots on the skin, and small corns on the palms, soles and trunk. Some of these abnormalities may lead to skin cancer. EPA has categorized

arsenic as a Group A, known human carcinogen. 43

Arsenic was detected in several soil samples at levels exceeding its EPA benchmark for exposure to industrial soil. Soil from the original Tyler landfill (S-2 & S-3), and from the shallow landfill on BFI properties (S-11) all exceeded the EPA benchmark. Given the highest concentration found on S-2 of 56.2 mg/kg and an oral slope factor of 1.75 (mg/kg/day), the excess lifetime cancer risk associated with exposure would be 3.8E-6. This value does not exceed the EPA's acceptable excess risk for carcinogenic effects.

Dieldrin

This chlorinated hydrocarbon insecticide was used extensively on food and fiber crops to control termites until it was taken off the American market in 1987. Because dieldrin is highly persistent in the environment, residues remain detectable in soil and sediment for many years after it is applied. It is highly fat soluble and bicaccumulates in the food chain through plants growing in contaminated soil and animals that ingest these plants, soil nutrients, or underwater sediments.

Dieldrin can be absorbed by the human body through the skin, lungs and stomach. Most human exposure occurs through eating contaminated foods which are high in animal fat, such as meats, some types of fish, and non-skim milk dairy products. The central nervous system is a major target of dieldrin toxicity. Chronic exposure to moderate levels of the insecticide can cause headaches, dizziness, irritability, vomiting, and/or uncontrollable muscle twitching. A few cases of have been reported in which individuals chronically exposed to dieldrin developed rare disorders in which the body destroys its own blood cells."

Dieldrin was found in the soil sample taken from the shallow landfill surrounding the radio towers (S-15) at a level that exceeded the EPA benchmark. The concentration found here was 960 micrograms/kg. Based on this concentration and an oral slope factor of 1.6 X 10¹ (mg/kg/day)⁻¹, the excess lifetime cancer risk associated with this exposure would be 1.0E-6. This is the lower bound of the EPA's acceptable excess risk for carcinogenic health effects.

D. Ecological Risk
Chronic Ambient Water Quality Criteria (AWQC) values for the protection of aquatic life in freshwater were exceeded for cadmium, chromium, copper, cyanide, iron and lead in one or more surface water samples. Values for cadmium, chromium (assumed to be Cr VI), copper, iron and lead were all exceeded in sample SW-1 from an

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unnamed on-site stream. The value for iron (1000 ug/L) was also exceeded in four other surface water samples.

Substance	Highest Concentration in Surface Water (ug/L)	Chronic AWQC Value for Freshwater (ug/L)
Zinc	245	110
Chromium	38.6	11
Copper	59.5	12
Cyanide	45.2	5.2
Iron	12,600	1,000
Lead	157	3.2*

The AWQC values for this metal is a function of water hardness. The value given is based on an assumed hardness level of 100 mg/L as CaCO,.

E. Human Risk Summary

Noncancer Risk

None of the calculated hazard quotients exceed unity, and the hazard index is also less than one for the contaminants that exceed benchmark levels in the soils and sediments.

Moncancer Risk

SUBSTANCE	HAZARD QUOTIENT	
Cadmium	0.16	
Chromium	0.07	
Copper	0.01	
Manganese	0.33	
Hazard Index	0.57	



Cancer Risk

Cancer risks for individual contaminants are within the range considered acceptable, as is the total cancer risk.

Cancer Risk Summary

Contaminant	Exposure Medium	Risk Estimate
Beryllium	sediment	1E-7
Beryllium	soil	1.1E-7
Benzo(a)pyrene	sediment	4.7E-8
PAHs	soil	1.1E-6
Dieldrin	soil	1E-6
Hazard Index		2.4E-6

7.0 Project Sampling

The first round of sampling for this PI-ESI was done on June 2nd and 3rd, 1993 by personnel from MDE's Site Assessment Division. GeoTrans, Inc., a consultant for the Estate of Robb Tyler, split some of the environmental samples with MDE.

Project Manager: Ginny Sells

Project Geologist: Robert Rothman

Safety Officer: Chris Pajak

CLP Coordinator: Michele Mosco

Sampling Personnel: Kim Lemaster

Chris Pajak Mark Cox

Woody Featherstone :

Patti Davis Vasile Rusu Ginny Sells

Community Relations Specialist: Ron Lamb

Site Assessment Division Chief: Alex M. Cox

EPA Region III MD Project Officer - Michael Taurino

Additional sampling of soils, and certain biological communities in Herring Run was conducted on June 7, 1994. The sample results will be reported in a separate volume when they are available.



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TABLE	ار					INORGAN	NORGANIC SOIL D	PATA	49) (MD-174 PHASE	74 MASE 1	ESI)		ļ			
	5-1	2-5	\$-3	ĭ	115-5	\$ - 9+\$	2-8	8-8	6-8	3-10	s-11	s-12	s-13°	\$1-S	s-15	S-16
74	119000	9260	14300	3610	909	0239	0696	8520	pq.	8400	14500	12400	118000*	3670	5550	10500
£	15.34	2	Z	Ę	£	8	E	Z	18.531.*	E	18.01.	7	(11.6)1	pu	2	P
48	(4.8)L	\$6.24.	34.71*	11.31	3.51	3.9.	5.00.	6.51	12.61*	3.21	33.8L*	9.21	(4.3)	ry.9	10.8L	[4.1)J
2	217	369	2250	[26.1]	62.1	74.1	2494	882	73.2	£40.53	5854	169	202	113	100/	971
2	Z	Z	Ā	Z	2	Z	Z	2	72	2	g	1.78	nd.	pu	핕	Þ
3	10.3	2	101*	Ē	Z	2	1.800	2.0¢	10.14	2	6.30	3.24	9.6*	(.60)K*	10.8*	1.95K*
3	11400	10900	49700+	Ž	902	72%	9500	2860	230	Z	9470	44700+	11000	6610	3550	13100
გ	366,14	161.10	138.4	36.4J	28.32	22.53	1964	1991	31.5	29.2	57.5	48.7	299.14	41.2	4474	58.1
3	16.3	13.9	35.74	(3.5)	[4.5]	15.91	(7.4)	16.51	(3.9)	18.73	13.6	6.11	18.04	(5.9)	[4.8]	(10.8)
3	3340	\$2,00	1240	13.1	2.1	23.8	3602	20%	9364	18.3	4674	110	21504	50.7	*86	86.5
	36000	910004	46200+	5950	13100	12600	20100	19900	8410	25800	73900+	23600	43700+	13000	21500	16300
£	558	491	26004	57.0	73.8	2013	109	107	2990#	9.9	1530	304	552	151	7234	236
£	4340	22.30	6970 -	(781)	1870	9522	2130	Z		2220	2	13100	7090	2530	(315)	5220
£	92870	1190	*r0902	56.73	23.2	7072	253	226	114	163	ξ	750	963.14	355	61.2	374
₹	6.	0.42	0.50	(0.05)	0.28	0.28	1.24	33.0	0.73	Z	0.85	0.23	2.54	Z	14.64	0.73*
Ē	139	1210	1124	12.1	[5.5]	(6.1)	5	\$. ¥	27.5	16.9	224*	31.40	1134	27.54	5.1	41.64
¥	[744]	(507)	2200	[456]	(410]	[424]	[673]	(574)	(166)	(704)	(483)	[688]	[75]	(378)	3788	(1960*
. 8	Ž	2.9.4	10.41*	Ā	3	Z	2.3.0	Z	P.	S	ğ	Z	2	Z	5	ğ
2	4.3K*	6.14	12.64	nd	Z	Z	7.40	7.9	3.34	(1.1)*	17.5	(2.2)*	4.4K*	2	47.3	[2.4]*
2	2	Pd.	2	nd	Ed.	Z	7	Z	pd	Ē	1	36	nd .	nd.	Z	3
11	2	Ž		nd.	3	Z	£	Z	pe	Z	1.34)*	2	Z	2	Z	Ē
>	92.0	30.5	90.4	12.6	40.2	31.9	36.2	31.2	(10.3)	36.4	55.9	32.7	82.3	23.0	7.62	39.5
Zn.	1340	1999	4560	41.9	73.4	77.0	5194	423	196	45.4	1520	384	1380*	197	658 *	360
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2	-Puplicate of S	1011				2										

esubstance present at a level greater than or equal to 3x the background semple.

nd-thot detected substantielly above the level reported in field or laboratory blanks, or quantitation limit inaccurate, impracise, or higher. As velues approach the 194, the quantitation may not be accurate. ***Background sample []=Analyte present.

be bissed high. Actual value expected to be lower. be bissed low. Actual value expected to be higher. K =Analyte present. L =Analyte present.

Cn=Cyanide

11... AGANIC SEDIMENT DATA (mg/kg) (ND-174 PHASE 1 ...1)

TABLE 2

ANAL Y TE	SED-1	SED-2	SED-3	SED-4*.	SED-5	9-03S	SE0-7	SE0-8*	SED-9	SE0-10	SED-11*	SED-12"	SED-13"
Atuminum	9810	0097	2550	3160	17500	0669	3190	2	3630	뒫	рц	11100	0096
Antimony	5	nd	2	2	2	2	DQ.	2	5	2	7	Pd	þú
Arseníc	10.21.*	(2.5)	[5.6]	(2.11.)	9.21.4	3.34	(2.21)	11.31	(17.7)	11.51	(0.99)	11.91£	5.31
Barius	355	77.9	(34.1)	[36.5]	138	73.9	(25.8)	(10.0)	147.01*	[17.5]	(15.5)	92.7	101
Beryllium	2	2	DQ.	2	돧	2	ğ	፮	2	2	ρď	1.9	nd
Cadmium	3.4Ke	Þ	Ę	2	2	2	B	2	Ę,	ם	Pd.	(0.41)K	10.701K
Calcium	18800	7230	7510	20800	4450	9910	6370	4010	9540	2670	2920	70600	#0£76
Chromium	1914	54.6	13.53	19.01	63.43	35.41	15.8J	9.5	16.43	7.01	24.01	37.41	73.61
Cobalt	(11.4)4	[6.5]	16.13	14.61	117.71	(11.1)	17.71	[4.3]	[4.4]	(1.8)	[2.4]	[7.0]	(13.7)
Copper	1894	42.74	20.4	8.8	73.8	42.2	15.8	6.7	15.5	8.1	9.3	22.5	7.59
Iron	271004	11800	10800	11200	322004	17100	10700	7390	9010	4290	4710	6520	*00602
Lead	5914	92.2	25.9	30.0	2334	121	37.1	43.4	55.0	13.6	30.1	55.2	1794
Magnesium	6720	3630	3200	8070	2420	5720	3350	1940	3890	[1030]	1340	22600	5070
Manganese	367	215	147.1	7907	1665	3311	104.1	114	126.1	62.41	1407	14503	5113
Mercury	0.55*	0.21*	됨	2	0.69	0.28*	pg pu	2	2	Ŋ	2	[0.06]	0.46*
Nickel	107*	25.44	[8.6]	(8.3)	52.44	22.6	[8.0]	(5.7)	[9.6]	(1.8)	[5.0]	18.2	45.2
Potassium	(1610)	110001	[222]	(272)	[1140]	(1200)	(301)*	(74.7)	1310	[250]	(349)	(851)	(1380)
Selenium	2	5	2	2	11.33	2	Þ	(10.93)	Ē	nd	pu	pu	5
Silver	(3.2)	11.23	S	ğ	[1,5]K*	2	5	(1.4)	2	2	힏	nd	2
Sodius	ğ	亨	된	5	2	Ā	ğ	2	Ę	2	jg.	E E	됟
Thallium	됟	됟	됟	2	2	2	בּ	DQ.	뎔	nd	nd	Ę	pu
Vanadius	63.44	23.3	17.5	15.8	57.78	33.0	19.1	(10.41	13.6	[4.5]	(5.9)	19.71	38.3#
Zinc	#299	188*	121	6.09	230	230	7.09	37.3	77.3	31.6	34.6	250	306
Cyanide	2	De la	2.94	2	2	2	Z.	2	DE	9	pu	nd	2
legend * Substance present at a level greater than not substance not detected significantly above field	stance pres	sent at a li	evel greate	or then or	n or equal to 3X Id blank levels,	충능	the background sample or above method detection limit.	ection lim	it.				

= Duplicate of SED-5 = background for SED-1,2,3,6; b = background for SED-1,2,7

 background for SEB-5,6,9,10; d = background for SEP -5,6,9,10
 halyte present. As values approach the IBL the quantitation may not be accurate.
 Analyte present. Reported value may not be accurate or precise.
 Analyte present. Reported value may be biased high. Actual value expected to be louer.
 Analyte present. Reported value may be biased low. Actual value expected to be higher J = Analyte present.
K = Analyte present.
L = Analyte present.

whole born 50 5,9+11 HEFRING RULL 0,000 J 17 K J L

IABLE 3			1	INORGANI	RFACE UAT	ER/GROUNDU	BFACE WATER/GROUNDWATER DATA (ug/L) (ND-17/	-OH) (1/6n)	177 4SE 1	ES1)				\	
AMALY."	SW-1	2-As	£-h\$. 5 -88	S-MS	9-85	1 20	49-MS	6-1	2-10	SU-11*	21-HS	SW-13 ⁰		
Atunima	Ę	Ş	2	2	Pa	PE	· 2	Z	pu u	Ę	2	nd	2	P	
Antimony		Z	2	2	pu	Z	DE	pu	עק	pu pu	걸	2	2	2	
Arsenic	[6.8]K*	Ā	þ	75	3	Ā	E	pu pu	2	Ē	2	nd	pu	2	
Barium	*667	[49.3]	(48.3)	[46.8]	(48.3)	(57.1)	(35.1)	[48.9]	(39.5)	(Q)	[96.6]	(43.9)	(52.7)	[49.6]	
Beryllium	2	DQ.	2	B	멸	2	Z	Z	Z	Ē	Ę	Z	pu	뒫	
Cadejus	2	2	Ā	Ę	2	2	DE .	2	2	Ē	2	nd	2	2	
Calcium	71400	29100	32300	29100	26400	26300	26600	31000	26400	94600	45000	71900	28100	10000	,
Chrosium	38.6**	3	2	2	Z	Z	Œ	7	nd	Z	P.	nd	2	2	
Cobatt	(4.3)+	E	2	2	pu	(3.9)	nd	Z	7	(5.8)	2	[4.4]	pu	1	
Copper	59.5*	2	110.91L"	14.31	Z	[4.31L	Z	7	3	E E	Per l	nd nd	pu	pu	. المحتود
Iron	12600.1**	2	T.	1130	2	1210*	2	11001	7	5370"	,0905	nd	pu	2	· p·
Lead	1574"	PE	JE .	2	Ę	þ	2	2	2	2	nd	nd	þe	pe	f.
Megnesium	16800	7610	0289	6630	2090	67.73	6170	6950	2090	22400	0266	15300	7520	(2030)	
Ranganese	476	2	Ā	Z	ğ	38	2	2	2	3280	946	500	569	2	
Hercury	2	2	Z	Z	Ē	Z	ā	þ	2	Z	2	2	Ę	2	, •
Hickel	(19.2)L	2	(15.8)	(7.2)	Z	2	Ę	nd n	Ē	(11.8)	Z	(7.2)	Z	2	
Potassium	11200	(4170)	[4070]	(3570)	(3970)	(3960)	(30,00)	[3390]	[4000]	8720	[4750]	6770	[4150]	(2910)	
Selenium	Z	Z	(3.9114	Ē	pu		Z	E	nd	2	2	2	Ē	nd	٠,
Silver	þa	S	Ę	2	Ē	Ē	뎔	jų.	je.	ad.	Ę	ğ		5	*
Sodium	65900	24800	20500	23900	22200	21100	22300	25800	22500	2000	22600	53200	23600	116000	1
Thellium	J	2	Z	2	Z	2	- B	2	2	Z	Ē	Z	D	Ę	
Venedium	(16.41*	Z	Z	Ā	ğ	Ē	ng.	Ē	and	. 2	2	.	2	Ē	*
7 inc	245*	Z	5	됟	ge ge	nd	E	Ē	Z	Ē	2	86.2	2	2	
Cyanide	nd 45.2L**		2	2	2	2	2	2	35.84.4"	Ā	<u>a</u>	3	nd	2	
a hackness	C 1-12 -V			for CI-127											

* Substance present at a level greater than or equal to 3% the background semple nd-Substance not detected significantly above field blank levels, or above method detection limit

 κ = levels exceed ANOCs for scute and/or chronic toxic effects to aquatic life^{2.8}

AR000051

AR000052

ABLE 4						CANIC S	OIL DATA	(10d/kg)	(ID-174 F	(GANIC SOIL DATA (UG/kg) (ND-174 PHASE I ES						
СОМРОИМО		S-130U	\$-2	\$-3	7-5	\$-5**	\$-6**	5.7	8-8	6-5	\$-10	\$-11	\$-12	\$1.5	\$-15	S-16
Acetone						-										
Anthracene			190.									+0007				
Arochtor-1260	-	23.1		•153					73.1*	36.1*		750J*				
Benzene												*L6				
Benzo(a) Anthracene	•052	170.4	910*					1501*	1301*			110001#	13001*	310.1*		720.0
Benzo(a) Pyrene	•	170.1	2007									*10088		\$203€		930*
Benzo(b) Fluoranthene	93	\$201*	1900•	7501			170,1	r09 1	370.	2907		200000*	*L000E	760*	*6002	2300*
Benzo(g,h,i) Perylene		230.1*										36001		4101*		920*
Butylbenzyl- phthalate								*ľ091	1701•							
Carbazole			14034									2600*				
Carbon Disutfide								16*								
Chlordane (alpha)	39*	2.84*	193*	7.30*	£.2*				11*	57.1*		56.1*	93.1*			
Chlordane (gamma)	4 ,7%	1.54*	181*	£.9	4.3*				5.84*	55ℓ*		21.1*	1001			· ·
Chioro- benzene								11.1*								
Chrysene	\$002	1403	760*					160,1				8500*		\$106₹		*L008
Dibenz(a,h) Anthracene		1201*										*r0051				
Dibenzofuran												12001*				
Dieldrin				32*				53.1*							* 096	
Ethylbenzene								*19								
Fluorene			1100-									*F0061				
Fluoranthene	3507	270.1	2000	1307				570	4101*	120,1		200000*	*L002£	830*		1600*
Indeno(1,2,3- cd)Pyrene	•	*L071	•r0%									*F002*		\$60J*		CA. POYL
Hethoxychlor																NA.
Methylene Chloride								180*	180*	54*		\$607				
- -								1 T								

41

	•								***	ţ.	÷		:	•	
		710.*	1100			2		1800*							
\$-15															
\$-14		340.1*	*7067					2504					,		
s-12		16001*	*7000Z									,			
5-11	12002	14,0000*	130001	ş	3.55	5,14		72000*		710.1					
S-10				:				1501							
8-9								1900•					erst		
3-8		160.0	350.4					1600*				9.8.			
) 2.8		640	4204			370	32*	1800			5.7.0	135			
\$- 9 -\$								_							
8-5**								1601		·					
7-5								1201						1 4 2 3	
\$-3				3.10						·		324	13.4		
2-8		1200•	740-					1102						, :	
NO£1-5			160.1					360.1							
1.		150.0	170.				·	310.							
CCAPOUND	Mapthelene	Phenanthrone	Pyrene	Tetrachloro- ethene	Trichloro- ethene	Toluene	Xylene(total)	bis(2Ethylhex -yl)phthelete	2-Butanone	2-Hethyl napthelene	000 - ,5'5	300 - 37'5	4,4' - DOT	4-Hethylphenol	LEGENO

no organic contaminants detected except 1401 bis(2-ethylhenyl)phthelete and 1701 benzo(b)fluoranthene is level greater than or equal to 3% the background sample

nalyte present, reported value may not be accurate or precise. nalyte present, reported value may be bissed lew, actual value expected to be higher, ethod detection limits higher for Soil i than for Soil 13

blank specemendatance not detected significantly above field blank levels, or above method detection limit

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May 14

14130

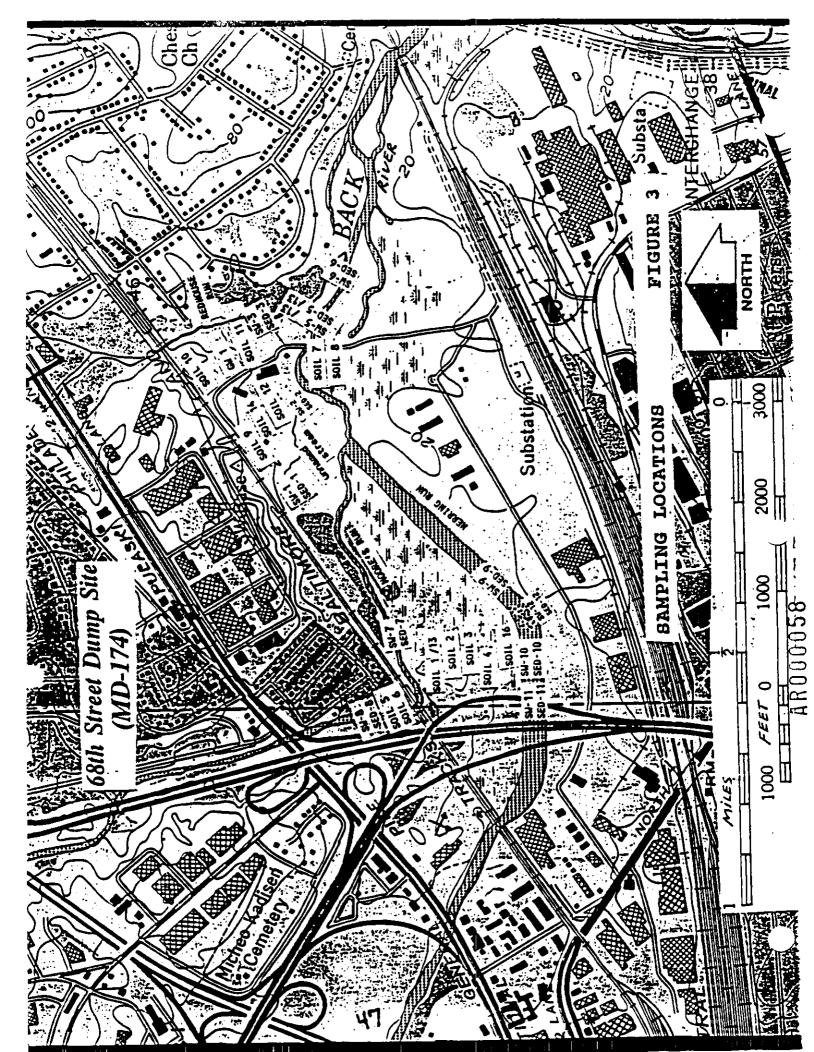
4, 560-1304 560-6 560-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 560-6 1300-7 56	= [Abit >						THE SEPTEMENT WAIN LUNYANG LINE	MI PAIN IN	- 1	11011	,			
High reference	أحيد	COMPOUND	SED-1	SEB-2	SED-3		SED-5	SED-13DU	S£0-6	SE0-7	SED-8	8-0-8	SED-10	SED-11	SE0-124
Benzota) 610a 700a 150J 410J 420J 770a 110Q 740 250J 600a Benzedga, h. 1) 610a 600a 146a 420J 770a 110Q 740 250J 600a Burytener 6arba 44a 6arba		Benzo(a) Anthracene	\$90¢	*f085	2101+		340.14	330.14	#f09 *	2603+		+r01£			
Benizo(b) 1400e 5801 4001 1000e 770e 1100 740 2801 600e Benizo(b, 1) 610e 600e 1401 4201 70e 110 72 2801 600e Burythentyt- 380ue 18 6.6 11 6.6 11 10 10 10 Gerban 419 18 6.6 11 48e 12e 10 10 Bisulfitde 18 6.6 11 6.6 11 10 </td <th></th> <td>Benzo(a) Pyrene</td> <td>6104</td> <td>700</td> <td></td> <td>1507</td> <td>4101*</td> <td></td> <td>1901+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>		Benzo(a) Pyrene	6104	700		1507	4101*		1901+						-
Benzo(g,h, 1) 610e 6001s 1401 4201 Perylene Peryl		Benzo(b) Fluoranthene	1400	1760	2801	7007	10001	770*	1100	07.2	2301	¥009	170J+		
Pury lear 21	أعتيسي	Benzo(g,h,i) Perytene	6104	*f009		1401	4201								
Carbon C		Butylbenzyl- phthalate		\$60%											
Chilordane 15 6.6 11 48* 12* 10 Chilordane Chilorodina 3.4 7.2 9.3 50e 13* 10 Chilorophanel 3.1* 7.2 9.3 50e 13* 10 Chilorophanel 3.1* 7.2 9.3 50e 13* 10 Chrysene 6.70e 750a 250a; 160a 750a 50a; 320a; Chrysene 140a 150a 70a 410a 90a; 72a 150a 32a; Indenoti, 2, 3- 460a; 150a 70a 410a 32a 75a 20a; 32a; Indenotifical 110a 27a 26a 75a 20a; 30a; 30a; 30a; 30a; Pyrene 100a 110a 27a; 24a; 24a; 27a; 10a; 27a; 11a 11a Industriese 10a 27a; 24a; 2aa; 2aa; 11a	-	Carbon Disulfide		•;•											
Chilordane (grama) 14 7.2 9.3 50e 13e 10 (gama) Ation 31+ 160. 360. 13e 10 Chiloro-Benzene G70e 760e 250.+ 160. 390.e 360.e 510.e 320.e Chrysene G70e 760e 760.e 400.e 400.e 750e 260.e 320.e Indepotit, 2, 3- 460.e 760.e 410.e 750e 750e 260.e 320.e Indepotit, 2, 3- 460.e 360.e 360.e 360.e 360.e 360.e 360.e Hethoxychlor Athorities 650.e 670e 300.e		Chlordane (alpha)			15	6.6	11		+87	120		J0		2.9	
Chicorbe benzene 31+ 1601 3901e 3601e 5101e 3001e 3201e Chrysene 670e 760e 2501+ 1601 3901e 3601e 5101e 3201e Fluoranthene 1400e 1500e 7001 4101 9001e 720e 1400e 750e 2001 880 Indenot1, 2, 3- 4601e 5101e 4101 9001e 720e 750e 2001 880 Indenot1, 2, 3- 4601e 5101e 3201 4100 720e 70e 71e		Chlordane (games)			*	7.2	9.3	-	\$0	13*		10		3.21	
Chrysene 670a 760a 2501+ 1601 3601a 510a 3001+ 3001+ 3001+ 3001+ 3201-		Chloro- benzene	3.4												
32014 7204 14004 7504 2001 880 3201		Chrysene	670*	160	+1052	160)	3901	360.14	510,14	300.1+		320.1+			
320Ja 720a 1400a 750a 200J 880 320Ja 220Ja 240Ja 240Ja 250Ja 1800a 660J 4100b 690a 120Ja 710 104 120Ja 710a 1800a 660J 4100b 690a 1310Ja 220Ja 710		Dieldrin			5.72										
+17		fluoranthene	1,000	1500	7007	4101	*r00%	720-	1400*	750•	2007	860	180.1+		
+ 280.1+ 240.1+ 570.1* 310.1+ 130.1 500* + 640.1 300.1+ 620 310.1+ 170.1 340.1+ 7.1+ 10.1+ 1800* 660.1 4100* 690* 1 220.1+ 1800* 660.1 4100* 310.1		Indeno(1,2,3- cd)Pyrene	46094	\$10Je			3201								
+ 280.1+ 240.1+ 570.1* 310.1+ 130.1 500* + 640.1 300.1+ 620 310.1+ 170.1 340.1+ 7.1+ 70.+ 1800* 660.1 4100* 690* 310.1 280.1+ 710		Hethoxychlor					·			56*	·				
1800+ 2401+ 2401+ 3101+ 1301 500+ 100+ 1001		Methylene Chloride											29		
14 6401 3001+ 620 310J+ 170J 340J+ 7J+ 10J+ 660J 41000 690* 220J+ 710 310J		Phenanthrene	6504	e704	*F00%	1801+	\$6095	5401	*1075	310.1+	130.	\$00\$			
71* 12201+ 1800* 660J 41008 690* 280J+ 710 310J	·	Pyrene	1000	100	270.1+	\$50J+	7079	₹ 00£	929	310,4	170.	3401+			
220.1+ 1800* 660.1 41000 690*	فعيد	Totuene	*	5.4			*72	101+				71*	13+		
2803+ 710 310J		bis(2Ethythex -yl)phthalate	₹088	2300#	370.	5401		5201+	1800*	1099	41000	*069	1401+	2301	1401
	_	4-Nethylphenol		2501+			280.1+	710				310.1	2301+		
oround for SED-5.6.9.10	9-44	EGEND = beckground for	SE0-1.2	3.6: b =	backoroun	1 for SED-1	.2.7: c =	backoround	for \$60-5	6.9.10					

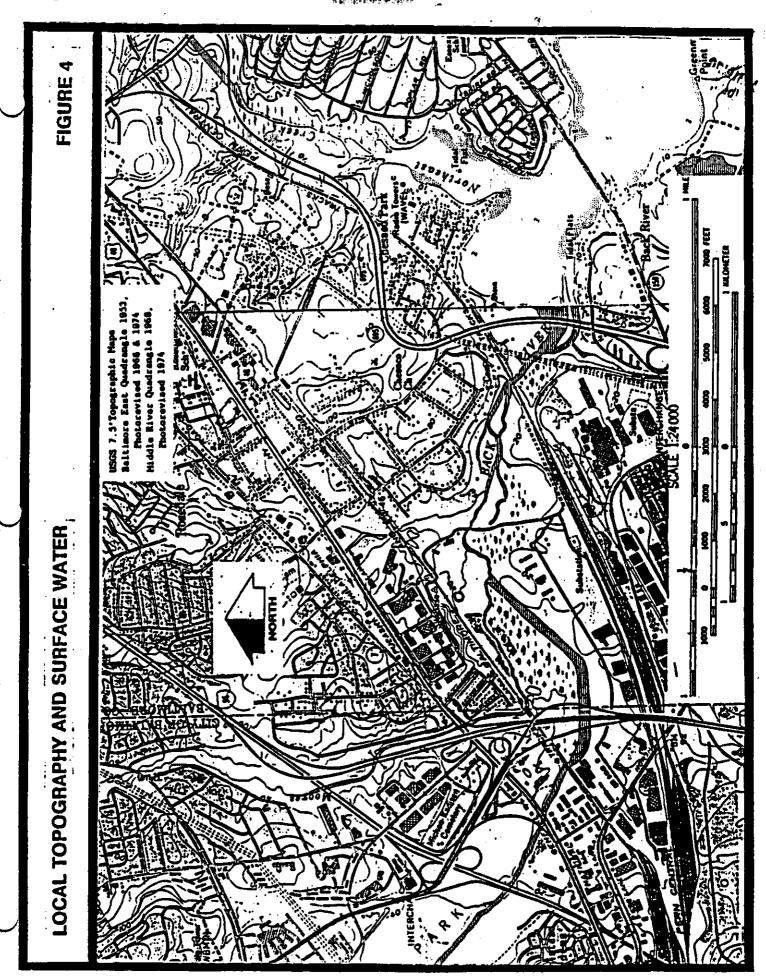
9.0 FIGURES

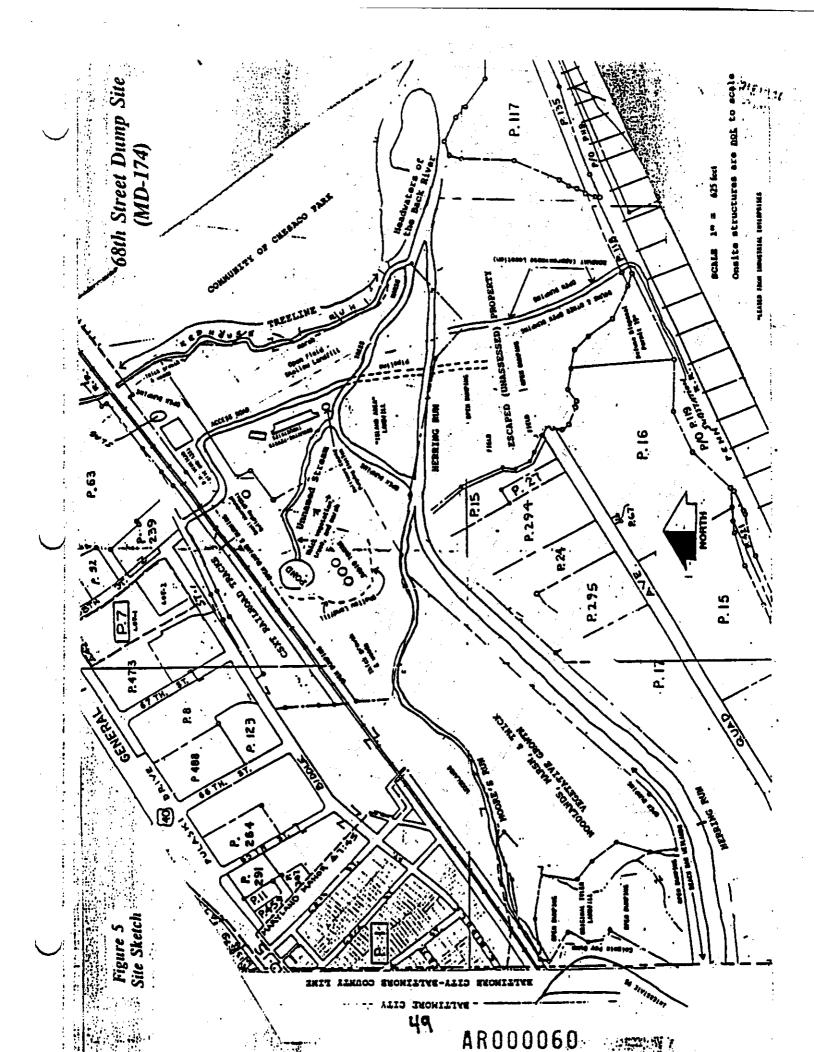
אומובנ. FIGURE 19en **REGIONAL HIGHWAY MAP** PENNSYLVANIA ेख्य 🖁 Hampsteed Owings Mills BALTIMORE MARYLAND 1991 SHA SCALE SITE LOCATION 20 KILOMETERS

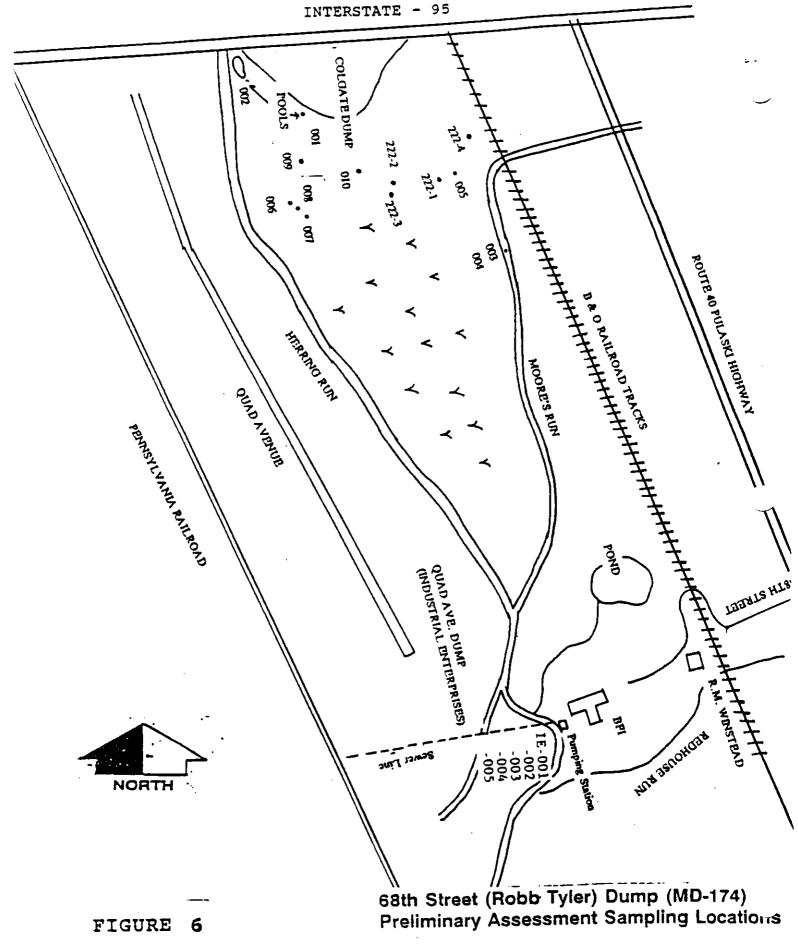


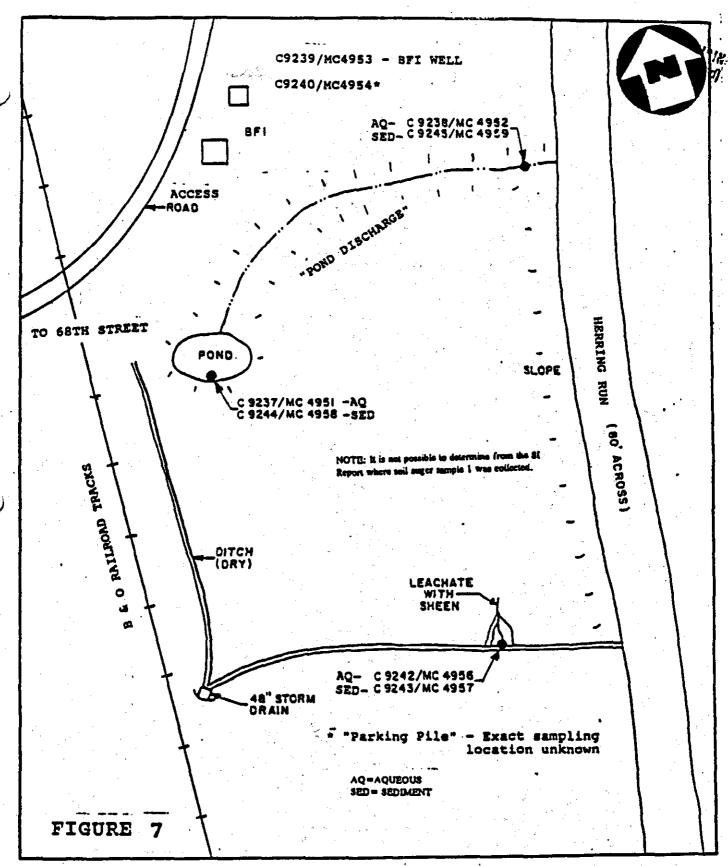












SITE INSPECTION

SAMPLE LOCATION MAP

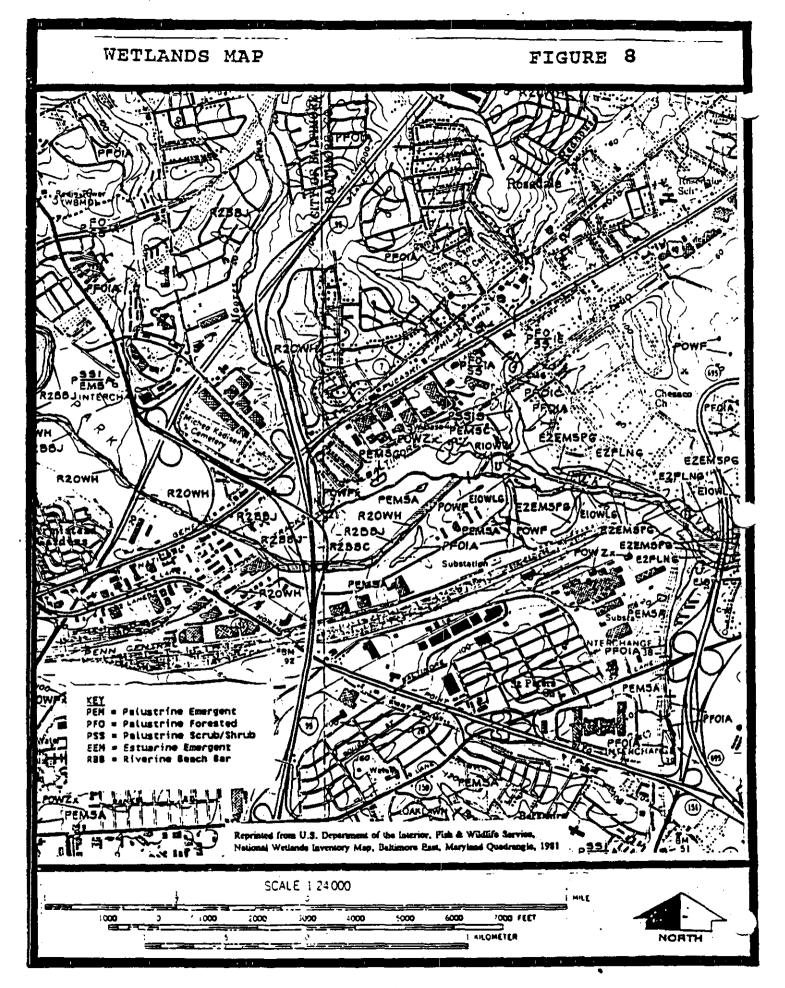
68th STREET DUMP, BALTIMORE, MD.

(NO SCALE)

'Revised 1/93)

A Halliburton Company

AR000062



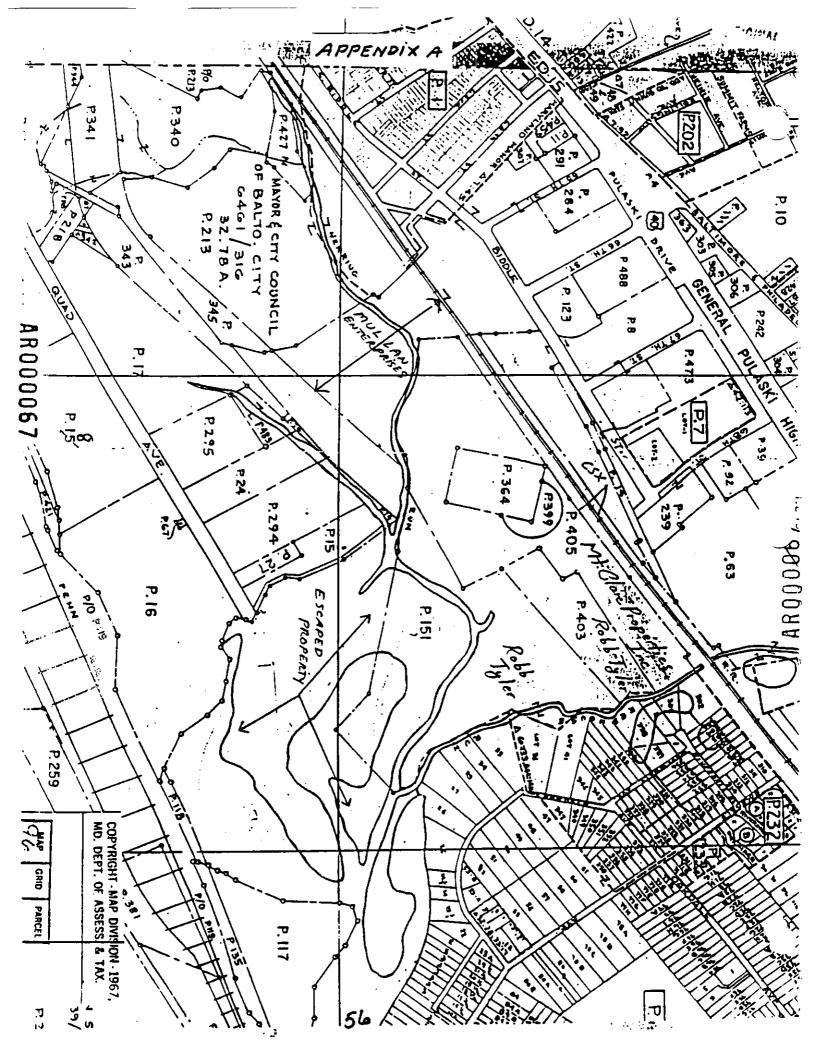
	÷.		ar.					КЕЙ			NAS.
	Southerst	towards the Back River	<	of tion	/ ***			A.	Ratuman	geologic area.	DEAWING HEMBER
		tou		r ps co		R		684 St. Dump	P. A.	2 6	- 444
				Pert				THE 6		1 mod 68 K	MIGROL OTIOGIC FORMOTIONER OF THE RAMAGE AND THE PORTILE OF LOLUMBUM
						(1) (e.s.		70 VO	APROVED 8V:		
9		• .	2 C				4	SECTION	2%	•	199, mathlesso, D. 1994.
FIGURE 9			t Deposits	15	C. Aguira-			CROSS	SCALE NAREA, /	roca: T format	SOURCES: VAPELISKY LOGSINI-PLAIN OF .N. BELSPRINGEN
FJ			Recent D.	de		\				•	•
1								4			
				7, 2	Comples Base	4	٦ ٢		* * * * * * * * * * * * * * * * * * *	7	
	s t	city		/ r · r · ·	riedmont Crystallin Rock		Crystalline	bedrock	grave/	c/ay	
	Northwest	towards Baltimore	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			,	>	۲ ^۲		•	
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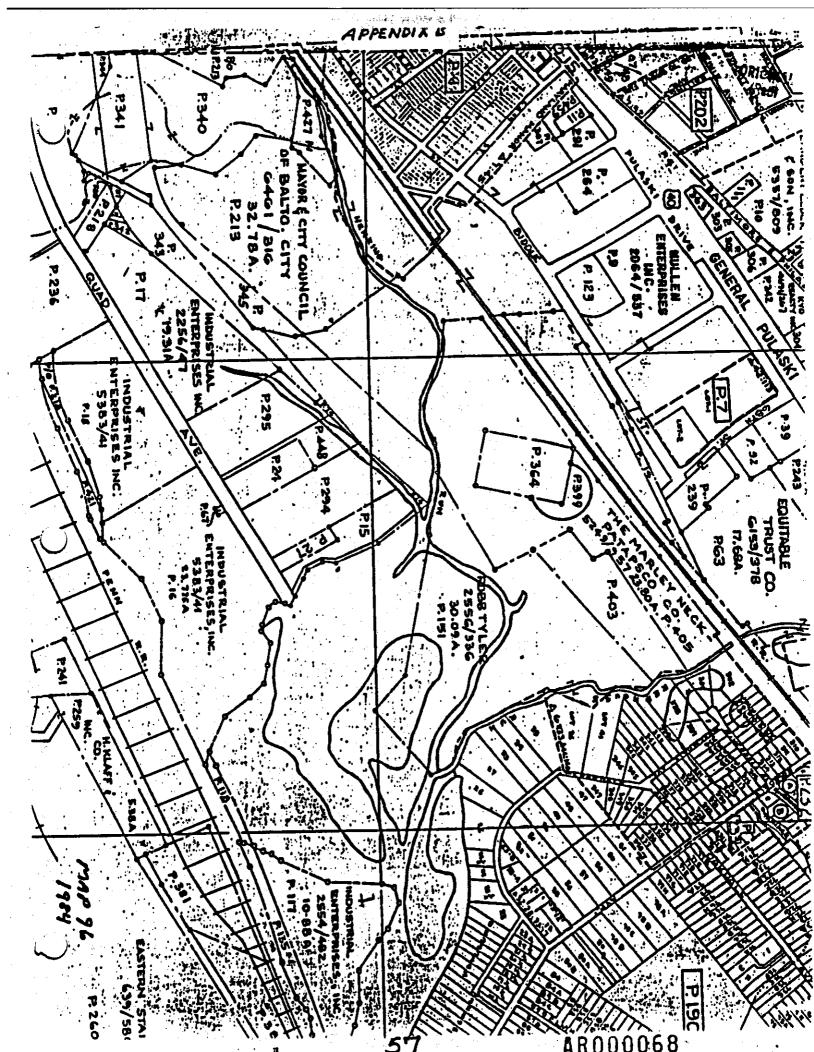
Figure 10 Geologic Map

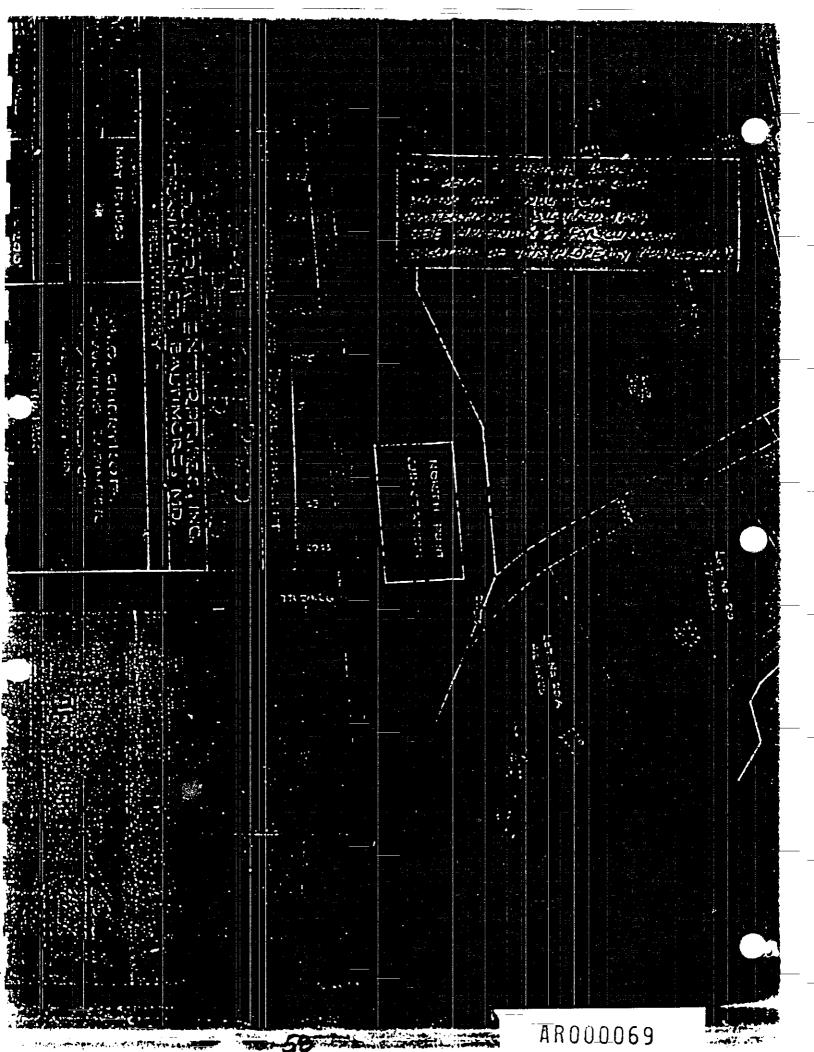


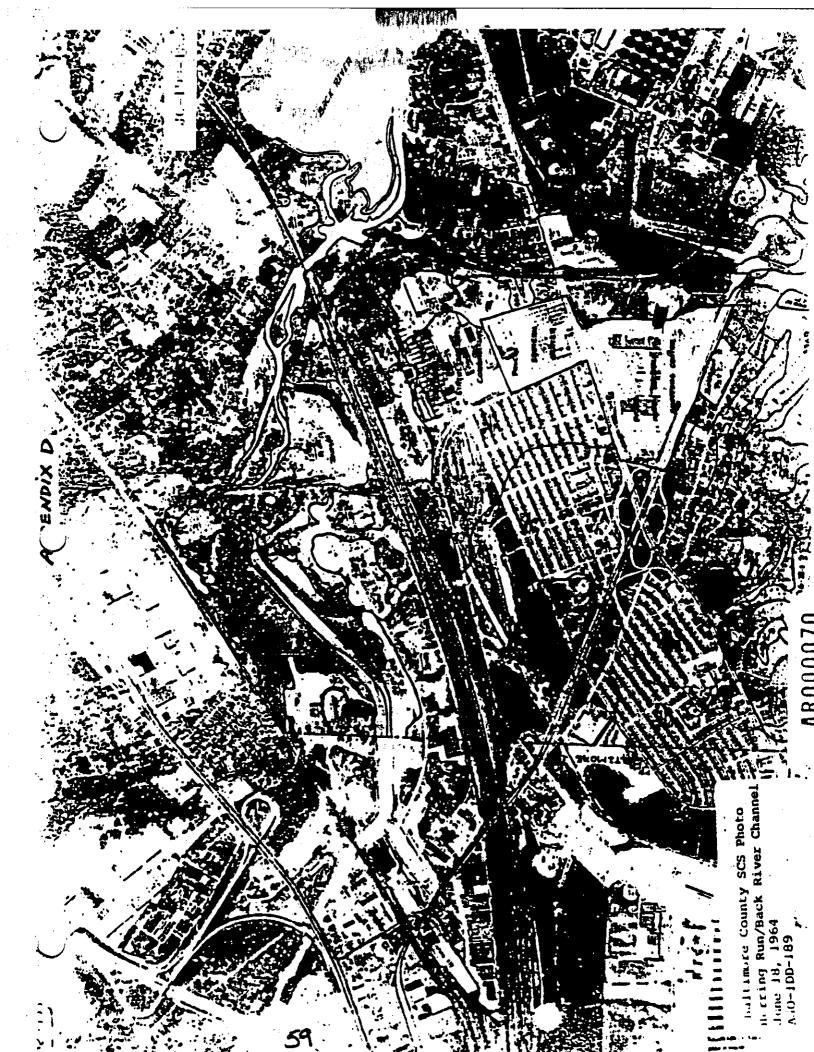
	•			scale 1:02,300
Qal	Alluviuma			p Perry Hall Gneiss
210	Taibot	formation-sand	facies	r Raspeburg Amphibolite
Kps	Patapsco	formation-sand	facies	
Kxs	Patuxent	formation-sand	facies	t north
Kxc	Patuxent	formation-clay	facies	source:Crowley, Reinhardt,
Kas	Arundel	formation-sand	facies	and Cleaves, Geologic Map of
Kac	Arundel	formation-clay	facies	Baitimore County and City,
ug	upland g	ravel		Maryland Geological Survey,
af	artifical	fill		1976

APPENDICES











COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF SOLID WASTE MANAGEMENT

Gne Ararat Boulevard Harrisburg, Pennsylvania 17110

(717) 657-4588 June 14, 1985 RECUIVEL

444 20 1335

FREDWICE TENE SIVISION

Mr. John Koontz Maryland Waste Management Administration 201 West Preston Street Baltimore, MD 21201

Re: Robb Tyler Facility
Potential Superfund Site
Maryland

Dear Mr. Koontz:

As we have discussed, attached is information indicating that plating sludges from R & R Metal Finishing, currently Heritage Metal Finishing, Inc., may have been disposed of at a facility in Maryland. Both a waste inventory form completed in 1980 and a letter from the generator in 1978 document the use of Tyler or Taylor site. I have also included some waste stream analyses and general information concerning the waste streams and industrial processes at the generator's facility.

I hope this information will be of value to you in investigating this site and identifying potential responsibility parties. Please apprise me of the results of your investigation.

Sincerely,

Gregory L. Harder

Solid Waste Specialist

2 2 Daylo

Harrisburg Regional Office

GLH: jsm

Attachments

R. & R. METAL FINISHING CO. INC.

800 SOUTH MARKET STREET • ELIZABETHTOWN, PA. 17022 AREA (717) PHONE 367-1561

February 1, 1978

Dept. of Environmental Resources 1002 Health & Welfare Building Harrisburg, Penna. 17120

C

Attn: Francis Fair

Re: Disposal of Waste Sludges

Dear Mr. Fair:

In reply to your letter of January 18, 1978, concerning the disposal of waste sludges.

Semi solid sludges containing 15% to 20% solids are collected in 55 gallon drums. This sludge is bauled from our facilities in lots of 85 drums by Zeiglers Liquid Waste Management, Inc., P.O. Box 2007, York, Pa., and disposed of at Jonas Waste, Banridge Road, Swell, New Jersey.

Liquid sludge containing 1% to 2% solids are collected in a tank truck and hauled from our facilities in lots of 3500 gallons by our truck to a disposal cite at Robb Tyler, P.O. Box 15580 Baltimore, Maryland.

Very Truly Yours,

Charles E. Roland

President

CER/ym

APPENDIX F

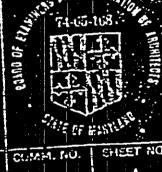
OCATION PLAN

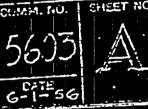
SCALE: 1" = 200

GARAGE BUILDING

MR ROBBITYLER BALTIMORE COUNTY: N

TYLER, KETCHAM & MYERS
ARCHITECTS ALTIMORE 1 MD.





LCCATION

GARAGE

MR RO

ARDDOO74

APPENDIX G

215-030-01

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT ADDENDUM WEBB DAY AND NIGHT TRANSMITTER SITES BALTIMORE, MARYLAND

Prepared for:

Allied Media Inc. 65 Central Street Woodstock, Vermont 05091

Prepared by:

Radian Corporation 2455 Horsepen Road Suite 250 Herndon, Virginia 22071

August 22, 1991

TABLE OF CONTENTS

TO

	Pag
1.0	BACKGROUND 1-
2.0	SITE VISIT 2-
3.0	ADDITIONAL REGULATORY AGENCY CONTACTS 3-
4.0	SUMMARY AND CONCLUSIONS 4-

1.0 BACKGROUND

In response to a request from Mr. Jon McCabe of Allied Media, Radian Corporation has performed additional site assessment activities at the WEBB Radio Transmitter sites in Baltimore, Maryland. This report is submitted as an addendum to the July 22, 1991 Phase 1 Environmental Site Assessment Report prepared by Radian Corporation for the same site. The information presented in this report addendum was obtained during a tour of the transmitter sites on August 20, 1991, and contacts with state regulatory agencies.

2.0 SITE VISIT

On August 20, 1991, Radian visited the WEBB Day and Night Transmitter sites and met with facility engineering, Roger Default. Radian inspected the interior of the six transmitter towers at each of the sites which were not accessible during the initial visit. Inspection of each of the enclosures revealed no evidence of previous spills or leaks of PCB-containing fluids such as staining or standing oil. No evidence of leaks or other releases were found in or around any of the transmitter enclosures.

TO

ADDITIONAL REGULATORY AGENCY CONTACTS

Radian also requested additional information regarding environmental records in the State files for facilities near the two transmitter sites. This information is only available upon written request and generally requires 30 to 60 days to obtain. Radian has submitted a Freedom of Information Act request to the Hazardous and Solid Waste Management Administration. A copy of this request is included for reference as Attachment A. We will forward any information received from this request to Allied Media.

67

3.0

4.0 SUMMARY AND CONCLUSIONS

Based on the additional site visit described in this addendum and Radian's previous assessment as described in the July 22, 1991 report, hazardous materials or hazardous waste constituents were not observed at the land surface, nor was there evidence of past hazardous materials contamination of the land surface at the WEBB day and night transmitter sites. The primary issue of concern noted was the PCB-containing materials used and handled on site. No evidence of mishandling, spills, or releases of these materials was found in the accessible portions of the sites. However, environmental samples were not collected and analyzed at this time to confirm visual observations made at the site.

It should be noted that this environmental assessment of the WEBB transmitter sites is limited to the extent of the activities and investigation described in this report. Radian's evaluation of the conditions that currently exist at the two sites is based on visual evidence collected from accessible portions of each site during the site tour. No other warranties are implied or expressed as to the environmental status of the site, including inaccessible areas, subsurface conditions, or other conditions not visibly discernable.

TO

ATTACHMENT A

Freedom of Information Act Request Letter

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12

2455 Horsepen Road, Suite 250 Herndon, VA 22071 (703)834-1500

215-030-01-10 20 August 1991

Ms. Jeanette Owens Hazardous and Solid Waste Management Administration 2500 Broening Highway 1st Floor, Building 30-A Baltimore, Maryland 21224

Dear Ms. Owens:

Under the Freedom of Information Act, Radian Corporation is requesting any environmental records available on two properties in the Baltimore area. Of specific interest to Radian are inspection records, reported spills, or environmental complaints at the properties or in the immediate vicinity of them. The properties of interest are:

Site #1: 3400 Carling Park Drive, Baltimore, Maryland 21215; and

Site #2: 1050 66th Street, Rosedale, Maryland 21237.

Both sites are owned by Allied Media. Please route this request through all departments within your group that may retain records for the sites. You may call Nancy Drehwing or Jim Zimmerman at (703) 713-1500 should you have any questions regarding this request, or if the volume of material to be copied exceeds the threshold that is free of cost. Thank you for your prompt attention to this matter.

Sincerely.

sicoj C. Créhioi-Nancy Drehwing

Engineer

ND:bjg

Jim Zimmerman

DIG-046 0920-01.blg

APPENDIX H

Ownership History - 68th Street Dump Site (MD-174)

The site property is located on State Taxation And Assessment Map 96, blocks 3,4,9 and 10. This ownership history is based on information at the Baltimore County Courthouse that was readily available.

Parcel 405

October 30, 1972 (Liber 5328 Folio 190)

Grantor: The Marley Neck Patapsco Company, and Robb and Elizabeth

Worthington Tyler

Grantee: Maryland State Highway Administration

February 4, 1972 (Liber 5249 Folio 957)

Grantor: Chesaco Park Holding Company, Inc.

Grantee: The Marley Neck Patapsco Company (c/o CSXT)

Being portions of the premises acquired from Maryland Brass and Metal Works of Baltimore City.

This Parcel is currently owned by Mt. Clare Properties, Inc., a subsidiary of CSX Realty previously known as the Marley Neck-Patapsco Company.

Parcel 403

February 4, 1972 (Liber 5249 Folio 949)

Grantor: Chesaco Park Holding Company, Inc. Grantee: Robb and Elizabeth Worthington Tyler

April 12, 1968 (Liber OTG 4866 Folio 669)1

Grantor: Ruth Muir, W.A. Cerisriel, and Stanley B. Cerisriel (surviving Directors and Trustees of the assets of Maryland Brass & Metal Works)

Grantee: Chesaco Park Holding Company, Inc.

August 13, 1957 (Liber GLB 3273 Folio 522)1

Grantor: Maryland Brass and Metal Works Grantee: Chesaco Park Holding Company

Parcel 151

September 16, 1954 (Liber 2556 Folio 336)

Grantor: Marie B. Kavanaugh

Grantee: Robb and Elizabeth W. Tyler

APPENDIX H - page 2

July 2, 1941 (Liber CWB Jr. 1167 Folio 574)

Grantor: Maryland Brass and Metal Works Grantee: Benjamin J. and Marie B. Kavanaugh

May 16, 1930 (Liber L.McL.M 853 Folio 243) *

Grantor: Ludwig Madl, Jr.

Grantee: Maryland Brass and Metal Works, a Corporation of the State

of Maryland

* The property was parceled out as follows:

December 28, 1937 (Liber CWB Jr. 1020 Folio 356) To the Commissioners of Baltimore County

July 2, 1941 (Liber CWB Jr. 1167 Folio 574)
To Benjamin J. Kavanaugh and wife

November 29, 1954 (Liber GLB 2611 Folio 61) Leased to 1360 Broadcasting

December 18, 1956 (Liber GLB 3084 Folio 399)¹ Leased to 1360 Broadcasting

1 This property was previously owned by the Baltimore and Ohio Railroad, (September 19, 1883 Liber WM1 136 Folio 151)

Grantor: Francis White

Grantee: B & O Railroad, and;

September 16, 1851 (Liber AWB 466 Folio 357)

Grantor: George Hammersby

Grantee: Miles White

All of these property transfers are linked to Liber L.McL.M 853 Folio 243 (Grantor: Maryland Brass and Metal Works; Grantee: Ludwig Madl, Jr.

Parcel 340

July 20, 1982 (Liber 6461 Folio 310)

Grantor: Maryland State Highway Administration Grantee: Mayor and City Council of Baltimore

APPENDIX H - page 3

February 19, 1969 (Liber 4973 Folio 525)

Grantor: Robb Tyler

Grantee: Baltimore County (Parcel 341)

October 18, 1951 (Liber 2029 Folio 258)

Grantor: Church Home Hospital

Grantee: Robb Tyler

NOTE: All or a portion of this parcel was previously used by Robb Tyler to operate a sanitary landfill from 1953-1956 under State Health Department Refuse Disposal Permit 11.

Parcel 213

July 20, 1982 (Liber 6461 Folio 316)

Grantor: Maryland State Highway Administration Grantee: Mayor and City Council of Baltimore

NOTE: No additional information on the ownership of this parcel was readily available during the deed search. The historical use of this property is unknown at present.

Parcel 364

1360 Broadcasting Company c/o CSXT Realty

Parcel 341

February 19, 1969 (Liber 4973 Folio 525)

Grantor: Robb Tyler

Grantee: Baltimore County (for channelization of Herring Run)

October 18, 1951 (Liber GLB 2029 Folio 258)

Grantor: Church Home Hospital Grantee: Robb Tyler and wife

Parcels 343 (liber 4738 Folio 501), 345 (Liber 3830 Folio 367), 74 (Liber 4739 Folio 212) are currently owned by Baltimore County.

Parcel 9

Currently owned by Mullan Enterprises, 2330 West Joppa Road, Suite 210, Lutherville, MD 21093.

APPENDIX H - page 4

Parcel 427

October 30, 1972 (Liber 5328 Folio 190)

Grantor: The Marley Neck Patapsco Company and Robb Tyler Grantee: Maryland State Highway Administration

Parcels 344 and 399 - Not listed

APPENDII I

Current Property Owners

The Estate of Robb Tyler Post Office Box 24145 Baltimore, Maryland 21227

CSX Transportation, Inc. 500 Water Street Jacksonville, Florida 32202

Mt. Clare Properties, Inc. 6737 Southpoint Drive, South Suite 100 Jacksonville, Florida 32216

Baltimore County, Maryland A Body Corporate and Politic Office of Law Old Courthouse, 2nd Floor 400 Washington Avenue Towson, Maryland 21204

The Mayor and City Council of Baltimore

Mullan Enterprises, Inc. 2330 West Joppa Road Suite 210 Lutherville, Maryland 21093

APPENDIX J

Firms Leasing Site Property

From Mt. Clare Properties. Inc.

Allied Media Post Office Box 569 Woodstock, Vermont 05091

M.F. Winstead Company, Inc. Post Office Box 443 Joppa, Maryland 21085

From the Estate of Robb Tyler

Browning-Ferris Industries Post Office Box 72059 Baltimore, Maryland 21237 APPENDIX K

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE

PIOREPORT TO:

F. Brill- Calto, Co. DEPRM

OI Bosley Ave, MS 3404

Son, MD 21204

Laboratories Administration

201 W. Preston Street
P.O.BOX 2355, Baltimore, Maryland 21203
J. Mehsen Joseph, Ph.D., Director

68 TH ST. 174

887-3745

GAS CHROMATOGRAPHY-MASS SPECTROMETRY LABORATORY Balavia Landfill Co

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2210

parts per billion (micrograms per liter)

ICL - maximum contaminant level

NA - not analyzed

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Final Report Attached

Methyl-tert-Butyl Ether (MTBE)

Chloromethane

DEPARTMENT OF HEALTH AND MENTAL HYGIENE _ Laboratories Administration ...

201 W. Preston St.

201 W. Preston St. P.O. Box 2355, Baltimore, Maryland

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE Laboratories Administration 201 W. Preston St. P.O. Box 2355, Baltimore, Maryland 21203 J. Mehsen Joseph, Ph.D., Director

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* Results reported in Units, all others in milligrams per liter (ppm)

Number of Tests Requested

Asoka I. Katumuluwa Section Chief

Date

AR000093

STATE OF MARYLAND E HEALTH AND MENTAL HYGIENE

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END REPORT	Г ТО:				Laboratories	Administ	ration	· ·
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201 W. Preston Street P.O.BOX 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

GAS CHROMATOGRAPHY-MASS SPECTROMETRY LABORATORY Batavia Land fill Co SDWA ANALYSIS REPORT FORM Mike La Cotti

COLLECTOR:	I, Barrai			SAMP
OTTLE NUMBER:	BA LAC CO	115_	(zviels)	PRESE
PA METHOD:	502.2	524		DATA

M5 3404

101 Philadelphia Ave. ERVATION USED: 1+1 HCI to plf <2 8 cocle DATA CATEGORY CODE:

68' ST. DUM

Time

ERA CONT

ACTUAL

- PRIVATE 5.9 _COMMUNITY Sampling **Date Collected** County Plant No. _ NON-COMMUNITY Station SAMPLE TYPE Field Chlorine Residual SOURCE (Rew Water) Data: OISTRIBUTION (Treated) Total WATER TREATMENT PLANT

COA CONT

.EMARKS: .

(P.O.E to Distribution)

THANIMAINC	EPA CONT	MCL	LEVEL (ppb)	CONTAMINANT	ID. LEVEL (ppb)
RIHALOMETHANES				•	
Bromodichloromethane	2943 "			Bromomethane	2214
omolorm	2942			Dichlorodifluoromethane	2212
hlaroform	2941			Chloroethana	2216
Jibromochloromethane ·	2944			Trichiorofluoromethane	2218
		100		1.1-Dichloroethane	2978
T" 'ALTHM	2950	100		m-Dichlorobenzene	2967
ULATED					2408
anzene	2990	. 5		Dibromomethane	
Carbon Tetrachloride	2982	4		1,1-Dichloropropene	2710
Chlorobenzene	2989	· 100 ·		trans-1,3-Dichloropropena "	2224
		75		1,1,2,2-Tetrachloroethane	2988
Dichlorobenzene	2969	13		1,3-Dichloropropane	2412
1-Dichloroethene	2977	′		2,2-Dichloropropene	2416
1,2-Dichloroethane	2980 .	5		cis-1,3-Dichloropropene	2413
1.2-Dichlorobenzene	2968	600		o-Chlorotoluene	2965
2-Dichloropropane.	. 2983 ∷	5 .		p-Chlorotoluene	2966
s-1,2-Dichloroethene 🍎 ನಿರ್ವಹಿಸಿದ್ದಾರೆ. 🖓	2380	70		Bromopenzene	2993
ب بني تاب المحالية ا	<u> 2979</u>	100 🚊		1,3,5-Trimethylbenzene	2424
Ett nzene juggeren bereit in	3 2992 7 - 1	7004	- 1	-1,2,4-Trimethylbenzene	2418
(Viene)	₹2996 .	3100°C		14 6 6 Tableschesses	
Mrachioroethene XIII and Market To the Control of t	2987	3.5	the way	1,2,3-Trichlorobenzene	2420
	PORA M.			n-Propyibenzene	2998
	72081	± 200 ₹	20, may 20 20 - 11 d.	n-Butylbenzene	2422
The second secon	200	~		· Naphthalene	2248
	489 1	<u>-</u>	 .	7 Hexachlorobutadiene	2248
	F 22/0-04	A. S.		Isopropylbenzene -	2994
	F2997***			1,2,3-Trichloropropane	2414
TO A CONTRACT OF THE PARTY OF T	2995			1,2-Dibromo-3-Chloropropane	2931
Xylene	2962			p-isopropyltoluene:	
Jal Xylenes - State - The State - Stat	2955:	10000			2030
ethylene Chloride	- 2964	5		Ttert-Butylbenzene	2426
112-Trichloroethane	2985			sec-Butylbenzene	2428
24-Trichlorobenzene	m:2378	30	-	Bromochloromethane	2430

parts per billion (micrograms per liter) - maximum contaminant level 4 - not analyzed

DHMH 4362

24 Trichlorobenzene

NREGULATED

hloromethane

82

Final Report Attached

2988

2946

2251

1,1,1,2-Tetrachloroethane

1,2-Dibromoethane (EDB) ~

Methyl-tert-Butyl Ether (MTBE)

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

GAS CHROMAFOGRAPHY-MASS SPECTROMETRY LABORATORY EPA METHOD NUMBER: _____8260____.

101 Philadelphia Ave

REFORT FOR DATA FILE : >E4206::D3

3 ID : 940154

LILECTOR / SITE : BALACO915 CHANT CORRECTION USED: 1.00000

DE ANALYZED : 9/30/93 21:40

Target cmpds:"

ompound	CONC	DL
○ CHLORODIFLUOROMETHANE ○ CHLORODIFLUOROMETHA	ND	10.0
LOROMETHANE	DN	10.0
/INYL CHLORIDE (CCC)	ND	10.0
e comethane -	MD	10.0
I LORGETHANE	_ GΝ	10.0
DRICHLOROFLUOROMETHAME	כא	10.0
FISTONE	ND	20.0
1-DICHLOROETHENE	ND	5.00
ETHYLENE CHLORIDE	СИ	5.00
TRYL TERT-BUTYL ETHER	ND	15.00
ANS-1,2-DICHLOROETHENE	ND	5.00
., 1-DICHLOROETHANE (SPCC)	ND	5.0
1-BUTAMONE	ND	20.0
2 2-DICHLOROPROPANE	GN	5.00
S-1,2-DICHLOROETHENE	ND	5.00
HECROFORM (CCC)	ND	5.00
BROMOCHLOROMETHANE	ND ' I	5.00
1 1-DICHLOROPROPENE	ND	5.00
1.1-TRICHLOROETHANE	ND	5.00
TO PON TETTACHECALDE	פּיג	5.00
2ZEME	ND	5.00
,2-DICHLOROETHANE	- ND	5.00
IRICHLOROETHENE	ND	5.00
1 2-DICHLOROPROPANE (CCC)	ND	5.00
) BROMOMETHANE	ND -	5.00
ROMODICHLOROMETHANE	ND	5.00
4-METHYL-2-PENTANONE (MIBK)	ND '	20.0
S-1.3-DICHLOROPROPENE	ND	5.00
OLUENE (CCC)	ND	5.00
TRANS-1,3-DICHLOROPROPENE	ND	5.00
1 1,2-TRICHLOROETHANE	ND	5.00
THEKANONE	ND	20.0
TETRACHLOROETHENE	ND	5.00
		5.00
3-DICHLOROPROPANE	ND ND	1.00
TORONOCHIOROMETHANE	, , , , , , , , , , , , , , , , , , ,	1.0° €.0°
		5. U
TATOUGSENZENE (2500)	ND	. •
RANT BENZEME (CCC)	, , , , , , , , , , , , , , , , , , ,	3.0.
.,1,1,2-TETRACHLOROETHAME	23 ND	5,00

	EPORT 11-Bo	T TO:	DEPARTMENT OF F		ND MEI	NTAL HYGIENE	Lab No	
	Buc 100	, Arr 115340	4 P.O. Box 235		, Marylan		44	9-16-7
	15/70		• •	EMENT L		 .		FYG
	08/-	3745	Metals A	Inalysis R	eport F	orm	Do not writ	le above this line.
: Bottle	BAL	AC0915	TS, favia: LF				INV. NO:	
Numb	er	Na	ne: -	- Mike	FO C	<i>0 771</i> Cou	nty	140 C)
Sourc	e of San	mple: _/0/_/	hila de phici	Town o	Cilv	Collec		Telephone Number)
Samp	le ·	Drinking Wat	Commun			Source (Raw Water)		
TYPE		Landilli	, Non-Cor			Distribution (Treated)	Code	. برکتا
(Circle)):	Stream	Private		- 14 e * * * * * * * * * * * * * * * * * *	MCL Sediment		The second secon
Rema	rks:				<u> </u>	4		
	코 ·			<u>तादांत्र</u> ा	-53	Date & Time.		ield Preserved
Joung	y	Plant No.	Sampling	Date Coli	<u> </u>	ا for Valid Samples ا	Time	'es No
s	ubmitter (If differi		Station	. 	.:		" ₽	reservative Used:
u u		ity Code) (See Reverse	Specify Program:	/			77/0	<u>0</u>
			Si Mariana	DWA:(_		NPDES:	OTHER:	
1-	CODE	Flement	RESULTS	· · · · · /	CODE	Element	- S. pre	ULTS:
	01097	Antimony			01105	Aluminum PH 9-20		0:07
	01002	Arsenic	Andrew Comments of the Comment	4.10	-00916	Calcium	- 21	4-4-5
	01007	Barlum H 1-20-	Z0,0	23	01045	·····7-77-43P11	10	X F
						Iron 9-17-93F75	20.	<u> </u>
	01012				00927	<u> </u>	02	
	01027	Cadmium 0-1 Y			01055	Manganese SE 9-12		
	01034		27-93 <0.01		00937	1	1 - 1	
عبر	01042	Copper 309-70:	10.39		00929			
1	01051	Lead 9-20-43		-	01092			08::-
1	71900	Mercury 4-21-6	L.0005	3476 ()				
	01067	Nickel SH 9- &			•		•	4-6-2
	01147	Selenium 9-22	20:01	9		A Committee of the Comm	a selection	the section of the se
	01077	Silver : TTT				with the second of the		
	01059	Thellium	a transfer of the second se		•	Continue to see on the see	man in the	
	• • • • • • • • • • • • • • • • • • • •			* .				
$\sqrt{\cdot}$			-	-				
*	lesuits re	sported in milligrams	per liter (ppm)	<u></u>	<u> </u>	•	<u> </u>	
	alyst	•	Section Chief	D- Su	dal .	Caro Benomed	10/5/	43
	.4432 (84			Date Reported _	00005	50 M
		was will B. B.	_			800		⊒u M

OHMH .4432 (9/91)

ARNNN96

STATE OF MARYLAND

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration 201 W. Preston St. P.O. Box 2355, Baltimore, Maryland 21203 J. Mehsen Joseph, Ph.D., Director

Lab No. Date Receive

ीत्।भूषा ेक्त)

WATER ANALYSIS

	·					Do not write above th	is line:
	Name BALACO 915 Name	ntavia	LF/	11/6/	4. County	Ralfoli	County () 3
S	ource 161 Philadelphia	Aur				Dat C≪	e Category 4
	Collected: Date 09-15-93 Time /	315	Collector -	<u> </u>	Boling,	8823745	Submitter Code
<u> </u>	HECK (one per box)						3
	Drinking Water Linutilit. Stream Other Community Non-community Private Other		Source (raw) Distribution (MCL		므니	Emergency Routins Recheck Special	Federal Project
	Sampling		10		ervation Iced.	Acid Acid	Has SULL
}	Plant No. Station				٦	. · <u></u> -	T-T-7/V
F	Chlorine: Free		Total () (Conduc		
, }	Notes to Lab/Remarks:						
<u> </u>		*			* .		
				·			
X S	TESTS	CODES	ERROR CODE	G/L	RESULTS	DATE - "ANALYZED	ANALYST INITIALS
)	Alkalinity (Total)	00410					
	Alkalinity, Ca CO; Sat.	74023			1,91 (3.9 m) (3.9 p) i		
	Ammonia - N	00608			< 0,2	9//6/93	DUB
7	Chloride Value 1000	00940-	3	2 : ,	18	9/17/93	DIT
	Color*	00081					6
	Conductance*, spec.	00095					000
_	Dissolved Solids	70300			70.	9/27	WHC 5
_	Hardness () () () () () () () () () (1:00900	. 5		2 harry	19/27/93	J.M. 2
	Fluoride,	00951	j. 50 3	۶,	, q		1
	Nitrite, N Seamen and an artificial	≈00615		4	0.002	19128193	EK
_	Nitrate - Nitrate; N	-100630			C 8	9-17-93	11.7
	pH*; CarCO, SAT: מושרעת ביו מושרעת ביו	-70311		, :	ennance const		•
_	Sulfate	00945		1	2.0	9/24/93	D.T.
	Total Solids	00500	. 1544	: -	জে ১৯৯৫ চন্ট্রাটনাল	1	
1	Turbidity*	00076		L	0.51	9/16/93	DI
	Other:	April 1900	Figure (legal)	1.15			
						-	
J						<u> </u>	
-							
	. "	1	1	1	•	1	-

^{*} Results reported in Units, all others in milligrams per liter (ppm)

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Brill Brill	ORT - <i>Ba</i>	TC Ho): <u>, C</u> a.	PEPI	e,u
il Bosley	Au	· C.	_/H	534	04

Laboratories Administration

201 W. Preston Street
P.O.BOX 2355, Baltimore, Maryland 21203
J. Mehsen Joseph, Ph.D., Director

LAB N	o 凹	-01
687		
_	MD-	174

387-3745

GAS CHROMATOGRAPHY-MASS SPECTROMETRY LABORATORY <u>Bat avia Land fill Co</u>
SDWA ANALYSIS REPORT FORM Poul Beckman

1

OLLECTOR: T.I , BO	drout ABEC	0915 (2)	(1015)	SAMPLE SOURCE: 125 PRESERVATION USED: 1	Philodelphia Ave
PA METHOD:		524		DATA CATEGORY CODE	
S_PRIVATE COMMUNITY NON-COMMUNITY	County	Plant No.	BEC Sampling Stasion	0, 9, (, 5, 9, 3 Date Collected	1 SICIO Time Collected
SAMPLE TYPE SOURCE (Raw Water) OISTRIBUTION (Treated) WATER TREATMENT PLANT		? Field Date:		Chlorine Residuel OO OO Free Total	

?E. .4RKS:____

(P.O.E to Distribution)

CONTAMINANT	EPA CONT	MCL	ACTUAL LEVEL (ppb)	CONTAMINANT	EPA CONT ID.	ACTUAL LEVEL (ppb)
RIHALOMETHANES					And the second second	
romodichioromethane	2943			Bromomethane	2214	
mote nf	2942			Dichlorodifluoromethane	2212	
Cl. Jorm	2941			Chloroethane	2216	
Pibromochloromethane	2944			Trichlorofluoromethane	2218	
OTAL THM.	2950	100		1,1-Dichloroethane	2978	
				m-Dichlorobenzene	2967	
REGULATED		_		Dibromomethane	2408	
Senzene	2990	5		1,1-Dichloropropene	2410	
Carbon Tetrachloride	2982	5		trans-1,3-Dichloropropene	2224	
Shiorobenzene	2989	100		1,1,2,2-Tetrachioroethane	2988	
>-Dichlorobenzene	2969	75		1,3-Dichloropropane	2412	
1.1-Dichloroethene	2977	7		2.2-Dichloropropane	2416	
,2-Dichloroethane	2980	5		cis-1,3-Dichloropropene	2413	
.2-Dichlorobenzene	2968	600		a-Chlorotoluene	2965	
1.2 hioropropane	2983	5		p-Chiorotoluene	2966	
ris-1,4-Dichloroethene	2380	70		Bromobenzene	2993	
rans-1,2-Dichloroethene	2979	100		1,3,5-Trimethylbenzene	2424	
Ethylbenzene	2992	700		1,2,4-Trimethylbenzene	2418	
Styrene	2996	100			2420	
Tetrachioroethene	2987	5		1,2,3-Trichlorobenzene	2998	
frichloroethene	2984	Š		n-Propylbenzene		
.1.1-Trichloroethane	2981	200		n-Butyibanzene	2422	
Toluena	2991	1000		Naphthalene	2248	
	2976	2		Hexachiorobutadiene	2248	
Vinyi Chioride	2997	•		Isopropyibenzene	2994	
>-Xylene	2995			1,2,3-Trichloropropane	2414	•
n-Xylene				1,2-Dibromo-3-Chioropropane	2931	
p-Xylene	2952	1000		p-Isopropyitoluene	2030	
Total Xylenes	2955		·	tert-Butylbenzene	2426	
dethylene Chloride	2964	5		sec-Butylbenzene	2428	-
(,1,2-Trichloroethane	2985	5		Bromochioromethane	2430	
1,2,4-Trichiorobenzene	2378	70		1,1,1,2-Tetrachloroethane	2986	
INDECLU ATED				1,2-Oibromoethane (EDB)	2946	
JNREGULATED	0046			Methyl-tert-Butyl Ether (MTBE)	2251	
, romethane	2210			Membi-tett-onthi cries (M100)	4431	

DATE RECEIVED: 9/15/93 DATE ANALYZED: 9-29-93 CHEMIST U. ROLD

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration 201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland

GAS CHROMATOGRAPHY-MASS SPECTROMETRY LABORATORY

EPA METHOD NUMBER: _____8260_

DRT FOR DATA FILE : >E4187::D3

ID

: 940164

LECTOR / SITE : BABEC0915 NT CORRECTION USED: 1.00000

1: 9/29/93 23:12 E ANALYZED

eget umpds:

mpound	CONC	ĐĽ
, <u></u>		
HEORODIFLUOROMETHANE	ND	10.0
GI ETHANE	, ND	10.0
/L CHLORIDE (CCC) -	סא	10.0
COMETHANE	ND	10.0
CROETHANE	ND CK	10.0
THIOROFEUOROMETHANE -	מא	10.0
TONE	ND	20.0
-DICHLOROETHENE	ND	5.00
HYLENE CHLORIDE	D 200	5.00
HYL TERT-BUTYL ETHER	DИ	5.00
NS-1,2-DICHLOROETHENE	ND * Track to the	5.00
-DICHLOROETHANE (SPCC)	ND	5.00
JTANCNE	ND CALASTY SECTION	20.0
-DICHLOROPROPANE	ND	5.00
-1,2-DICHLOROETHENE	ND	5.00
DROFORM (CCC)	מא	5.00
4OCHLOROMETHANE	ND	5.00
-D 'HLOROPROPENE	ND WITH THE	5.00
, 1- FRICHLOROETHANE	ND	\$.00
30N TETRACHLORIDE	ND	5.00
ZENE A & A A A	بىيىنىڭىدۇرىسىت مىسىت ND	- 5,00
-DICHLOROETHANE	ND	5.00
THLOROETHENE	ND 422	5.00
-DICHLOROPROPANE (CCC)	ND TO	5.00
ROMOMETHANE	ND	5.00
10DICHLOROMETHANE	ND "	5.00
THYL-2-PENTANONE (MIBK)	ND	20.0
-1,3-DICHLOROPROPENE	ND	5,00
UENE (CCC)	GN	\$.00
/S-1,3-DICHLOROPROPENE	CN	5.00
,2-TRICHLOROETHANE	ZD CK	\$.00
EXANONE	ND	20.0
RACHLOROETHENE	GN	5.00
-DICHIOROPROPANE	::D	5.00
ROMOCHLOROMETHANE	N T	3.00
ROMOETHANE	7.3	\$,00
ROBENZENE (SPCC)	בא	\$.00
YI BENZENE (CCC)	7.3	5.00
.1,2-TETRACHLOROETHANE	NO	3,00

AR000099

TO REPORT TO: Fall-13alfo (0 DEPRM) polecy Ave - MS 3404	DEPARTMENT OF HEALT Laboratories 201 W. I P.O. Box 2355, Balti	: Administration Preston St. : : imore, Maryian	d 21203	Lab No. Date Received
587-3745	J. Mehsen Jose MULTI-ELEMEN	NT LABORA	TORY	Do not write above this line.
	Metals Analys			INV. NO.
Boitle BAISECO 915Number:Nar	Butoug - Paul	Bockin	Co	unty: 130/fu (0
Source of Sample: /2-5=	Philadelphia	Town or City	Coll	ector: Ginclude Telephone Number)
Sample Drinking-Wall TYPES Landfill	Non-Communi	ty.	Source (Raw Water) Olsuibution (Treated)	Data Category
(Circle): Stream Other	(Private) Other		MCL. Sediment	
oz nty Plant No.		/ 5 F 3 e Collected	Date & Time are Required for Valid Samples	Field Preserved Yes No
Submitter Code (If different than County Code) (See Reverse)	Station Specify Program: SDWA:		NPDES:	Preservative Used
CODE Element	RESULTS	✓ CODE	Element	RESULTS 2
01097 Antimony		01105	Aluminum 2743	4 40.025
01007 Barium 94 9-30-9	20.1	01045	Iron 9 19 93 Ci	プラング
01012 Beryllium		00927	Magnesium	
01027 Cadmium (0:1 1	< 0.005	01055	Manganese SH 9:	-B 003
01034. Chromium 设出, 9	27-93 20-01	00937	Potassium 1915 1	1 < 1:0.2
01042 Copper 9# 9-20	1: "0:21=::::	90929	Sodium 9-17-939	1 2.5
01051 Lead 9.20-93-434	0:01	01092		
71900 Mercury 9-1213	2.005		The second second second	
01067 Nickel 9-10-93	٠٠١ - ١٠٠٠			
01147 Selenium 9-22-		75-44		
01077 Silver	San for Control of the Control of th			
01059. Thaillum	The second of th		Charles of the contract of the	
			The state of the s	The second secon
		77.0		
Results reported in milligrams Analyst	Section Chief D.	erdali	Date Reported	10/5/93
DHMH 4432 (9/91) AR	00010088		,	50 1

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE Laboratories Administration 201 W. Preston St.

P.O. Box 2355. Baltimore, Maryland 21203 J. Mehsen Joseph, Ph.D., Director

Lab No. Date Received

91018101

0301351 %16

WATER ANALYSIS

Do not write above this line. His Co 13AB8C0915 Date Category Code 887-3745 Collector & Submitter Code CHECK (one per box) Drinking Water Lanufill Соттилиу Source (raw water) Federal Non-co Distribution (treated) Stream Privat Project-MCL. Sampline Preservation: Iced Plant No. Station Specific Chlorine: Free Conductance is to Lab/Remarks: DATE ANALYST **RESULTS** TESTS CODES CODE 'ANALYZED INITIALS Alkalinity (Total) 00410 Alkalinity, Ca CO Satrument in the .74023 Ammonia - No-00608 Chloride 00940 Color* . 00081 Conductance*, spec. 00095 Dissolved Solids. 70300 00900 Hardness: Fluoride 1 00951 Nitrite, N 00615 · 002 Low of Brooks of the Wall Land Nitrate - Nitrate, None and the second 00630 pH*, CanCO+SAT AMACIEM " 70311 * Sulfate 00945 ร**ด้** และในสากกับสา Total Solids 00500 Turbidity* 00076 روازية المخاورة Other:

Number of

Asoka I. Katumuluwa

Date

SEP 3 0. 1997

^{*} Results reported in Units, all others in milligrams per liter (ppm)

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Brill-Balto, Co. DEPRM AVE, MS 3404 21204

Laboratories Administration

LAB NO.9

201 W. Preston Street P.O.BOX 2355, Baltimore, Maryland 21203 -J. Mehsen Joseph, Ph.D., Director

_			
887	_	-	"
X X /	- 4		<i>-</i>
		•	<i></i>

GAS CHROMATOGRAPHY-MASS SPECTROMETRY LABORATORY Balavia Land Fill Cas SDWA ANALYSIS REPORT FORM ric Warthen

n-Butylbenzene-

Hexachlorobutzdiene

p-isopropyltoluene -

tert-Butylbenzene

sec-Butylbenzene:

Isopropyibenzene :

1,2,3-Trichloropropane

Bromochloromethane. - .:

1,1,1,2-Tetrachioroethane

1,2-Dibromoethane (EDB)

Methyl-tert-Butyl Ether (MTSE)

1.2-Dibromo-3-Chloropropane

Naphthalene -

OLLECTOR: 1. J. Bedrog! OTTLE NUMBER: BA WAR 0915				SAMPLE SOURCE: 137 Philadelphia Ave.		
OTTLE NUMBER: _8/	<u>4 WARO</u>	915	•	PRESERVATION USED: 1+1 HCI +0 pHCZ & cocle		
'A METHOD:		524	•	DATA CATEGORY CODE: 4 F		
≥ PRIVATE _ COMMUNITY _ NON-COMMUNITY	County	Plant No.	WAIR Sampling	0, 9; 1, 5, 9,3 Date Collected Time		
SAMPLE TYPE -SOURCE (Raw Water) - DISTRIBUTION (Treated) - WATER TREATMENT PLANT (P.O.E to Distribution)	• • •	/ Field Date:	pH pH	Chlorine Residual () () () () Free Total		
EMARKS:				7 18 18 18 18 18 18 18 18 18 18 18 18 18		
INTAMINANT	* .**	EPA CONT	MCL LEVEL (ppb)	CONTAMINANT EPA CONT : FACTUAL ID. LEVEL (ppb)		
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-30-93 CHEMIST DATE ANALYZED:

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2962

2955

2964

2985

2378

2210

200

1000

10000

5

70

parts per billion (micrograms per liter) - maximum contaminant level 4 - not analyzed

90

Final Report Attached

MH 4362 10/92

richloroethene

nyi Chloride

Ital Xylenes

sethylene Chloride

NREGULATED hioromethane

,2-Trichloroethane

,4-Trichlorobenzen

-Xylene:

Xylene

(ylene

luene v

.1-Trichloroethane

AR000102

No Tentatively Identified Compounds Found

24221

2248

2248

2994

2414

2931

2030

2428

2428

2430

2986

2948

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYCIENE Laboratories Administration

Laboratories Administration
201 W. Preston St.
P.O. Box 2355, Baltimore, Maryland 21203
J. Mehsen Joseph, Ph.D., Director

Lab No. Date Received

301360 816 8

WATER ANALYSIS

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HMH 4432 (9/91)

AROOO I O 4 2

Laboratories Administration 201 W. Preston St. 201 W. Preston St. 21203.

GAS CHROMATOGRAPHY-MASS SPECTROMETRY LABORATORY EPA METHOD NUMBER: ____8260 ______

REPORT FOR DATA FILE : >E4193::D3 LAS ID : 940164 : EAWAR0915 COLLECTOR / SITE

QUANT CORRECTION USED: 1.00000

DATE ANALYZED : 9/30/93 5:31

Target cmpds:

Compound	The state of the s	٠	CONC		DL
	-,		-		
DICHLORODIFLUOROMETHAN	E		ND		10.0
CHLOROMETHANE			ND -		10.0
VINYL CHLORIDE (CCC)	•		ND		10.0
3" OMOMETHANE			MD .		10.0
C. LOROETHANE			ND	•	10.0
TRICHLOROFLUOROMETHANE			ND:		10.0
ACETONE		•	ND _		20.0
1,1-DICHLOROETHENE			ND	Service Control	5.00
METHYLENE CHLORIDE			ND		5.00
METHYL TERT-BUTYL ETHE			ND	•	5.00
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attachment i

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY





REGION III CENTRAL REGIONAL LABORATORY 201 DEFENSE HIGHWAY SUITE 200 ANNAPOLIS, MARYLAND 21401

QUALITY ASSURANCE BRANCH

DATE : September 10, 1993

SUBJECT: Region III Data QA Review

FROM : Cynthia E. Caporale Caprail

Region III ESAT RPO (3ES30)

TO : - Ginny Sells

State of Maryland

Attached is the inorganic data validation report for the 68TH Street Dump Site (Case 20101) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 573-6832.

Attachment

cc: Michael Taurino, RPM, w/o attachment (3HW73)

Monica Jones, Region III, State Coordinator (3ES32)

TID File: 03930420 Task 3355

CERCLA

SEP 15 1993

Projects Division



Environmental Services Assistance: Teams Region 3 1419 Forest Drive, Suite 104 Annapolis, Maryland 21403

Phone: (410) 268-7705 Fax: (410) 268-6472

PININAL

DATE:

SEPTEMBER 08, 1993

SUBJECT:

INORGANIC DATA VALIDATION, Case 20101

SITE: 63TH STREET DUMP

FRCM:

SHOBHA BODDU340

MAHBOOBEH MECANIC

INORGANIC DATA REVIEWER

SENIOR OVERSIGHT CHEMIST

TO:

CYNTHIA E. CAPORALE

ESAT REGIONAL PROJECT OFFICER

THROUGH:

DALE S. BOSHART

ESAT TEAM MANAGER

OVERVIEW

The set of samples for Case 20101 consisted of twenty nine (29) soil and fifteen (15) aqueous samples. Included in the case were one (1) aqueous field blank, two (2) soil and one (1) aqueous field duplicate pair. Samples were analyzed according to the Contract Laboratory Program (CLP) Routine Analytical Services (RAS) Statement of Work (SOW) ILMO2.1.

Several samples exceeded the Chemical Health Advisory Level of the lead (Pb) analyte. See Table - 4.

SUMMARY

All analytes were successfully analyzed in all samples except arsenic (As) and selenium (Se) in sample delivery group (SDG) MCJB46. Areas of concern with respect to data usability are listed according to the seriousness of the problem. The laboratory reported the data in four (4) separate SDGs. The data were reviewed and validated on an SDG basis.

MAJOR PROBLEMS

The contract required detection limit (CRDL) standard recovery fell below 50% for the As and Se analytes in SDG MCJE46. The quantitation limits for these analytes in the affected samples are unusable and have been qualified "R". The positive result for Se in sample MCJE46 may be biased extremely low and has been qualified "L".

MINOR ISSUES

The aqueous field blank (FB) had reported results greater than the Instrument Detection Limit (IDL) for the analytes listed below. The reported results in the affected samples which were less than five times (<5x) the blank concentrations for these analytes may be biased high and have been qualified "B".

Analytes	SDG(s)	Matrix
aluminum (A1)	MCJB18,MCJB20 MCJB44,MCJB46	Soil Aqueous
calcium (Ca)	MCJB18,MCJB20	Soil
iron (Fe)	MCJB44,MCJB46	ydneona
Pb	MCJB44,MCJB46	ydneonz
manganese (Mn)	MCJB44,MCJB46	Aqueous
sodium (Na)	MCJ318,MCJB20	Soil
zinc (Zn)	MCJB44,MCJB46	Aquecus

The continuing calibration blank (CCB) had reported results greater than the IDL for the analytes listed below. The reported results which were <5x the blank concentrations for these analytes may be biased high and have been qualified "B".

Analytes	SDG(s)	Matrix
beryllium (Be)	MCJB18,MCJB20	Soil
cadmium (Cd)	MCJB44	Aqueous
copper (Cu)	MCJE44	Aqueous
Pb	MCJB46	ydreona

The CRDL standard recoveries were high (>110%) and the matrix spike and/or analytical spike recoveries were low (<75%,<85%, respectively) for the As analyte in SDG MCJB18 and for the Se analyte SDGs MCJB18 and MCJB20, resulting in an opposing bias effect. The reported results in the affected samples for these analytes are estimated and have been qualified "J".

The laboratory duplicate results were outside of the control limits (35% RPD, ± 2xCRDL) for the chromium (Cr) and manganese (Mn) analytes in soil samples in SDG MCJB20 and for the Pb analyte in aqueous samples (20% RPD, ± CRDL) in SDG MCJB46. The reported results for these analytes in these SDGs are estimated and have been qualified "J". However, the qualifier "J" has been superseded by the previously mentioned qualifier "B" for the Pb analyte.

The ICP serial dilution result was outside of the 10% control limit for the Fe analyte in aqueous samples in SDG MCJB44. The reported results for this analyte are estimated and have been qualified "J". However, samples MCJB44 and MCJB59 have previously been qualified "B" due to blank contamination.

The correlation coefficient of the MSA for the Se analyte in samples MCJB25 and MCJB37 (SDG MCJB18) and for the Pb analyte in sample MCJB36 (SDG MCJB20) were less than 0.995. The reported results for these analytes in these samples are estimated and have been qualified "J".

CRDL standard recovery was high (>110%) for the analytes listed below. The reported results which were >IDL but <2xCRDL may be biased high and have been qualified "K".

Analytes	SDG(s)	Matrix
As	MCJB44	ydneonz
Cđ	MCJB18,MCJB20 MCJB44*	Soil Aqueous
Pb	MCJB46*	ydneonz
Se	MCJB18**,MCJB20**	Soil
silver (Ag)	MCJB20	Soil

- * Superseded by the qualifier "B", previously mentioned.
- ** Superseded by the qualifier "J", previously mentioned.

Page 4 of 6

The CRDL standard recovery was low (50%-<90%) for the analytes listed below. The quantitation limits and the reported results which were >IDL but <2xCRDL may be biased low and have been qualified "UL" and "L", respectively.

Analytes	SDG(s)	Matrix
antimony (Sb)	MCJB18 MCJB46	Soil Aqueous
Cu	MCJB46	Aqueous
Cr	MCJB44,MCJB46	Aqueous
nickel (Ni)	MCJE44	Aqueous
thallium (T1)	MCJB20 MCJB46	Soil Aqueous

The matrix spike recoveries were low (30% - 74%) for the analytes listed below. The quantitation limits and reported results may be biased low for these analytes and have been qualified "UL" and "L", respectively.

Analytes	SDG(s)	Matrix
Sb	MCJB18,MCJB20	Soil
As	MCJB18,MCJB20	Soil
Se	MCJB20	Soil
Tl	MCJB44	Aqueous
cyanide (CN)	MCJB44,MCJB46	Aqueous

The analytical spike recoveries were low (<85%) in several samples for the analytes listed below. The quantitation limits and the reported results for these analytes in the affected samples may be biased low and have been qualified "UL" and "L", respectively. Several qualifiers have been superseded by "R" or "B" qualifiers, previously mentioned.

•	•	Page 5 of 6
Analytes	SDG(s)	Matrix
As	MCJB20 MCJB46	Soil Aqueous
Pb	MCJB46	Aqueous
Se	MCJB18,MCJB20 MCJB46	Soil Aqueous
TI ,	MCJB20 MCJB44,MCJB46	Soil Aqueous

NOTES

The field duplicate results were within the laboratory duplicate control limits (20% RPD or ± CRDL) for the aqueous sample pair MCJB48 and MCJB56 in SDG MCJB46. The results for the soil field duplicate pairs were within the technical control limits (35% RPD, ± 2xCRDL) for sample pair MCJB31 and MCJB43, except for the Cu (43.3%) analyte and for sample pair MCJB22 and MCJB30; except for the Al (58%), Ca (72.3%), Fe (42.6%) and Ag (40.5%) analytes. Because there are no criteria established in Region III for field duplicate precision, no data were qualified.

The laboratory did not apply the "W" flag to sample MCJB48 for the As analyte (84.5%) on the Form Is denoting that the analytical spike recovery was outside of the 85%-115% control limits. The "W" on the Form I was added during validation.

Soil samples quantitation limits and reported results are calculated on the basis of dilution factors obtained from the raw data value (in ug/L), the gram weight of sample used, the volume of the digestate, and the % solids according to the following equation.

To obtain quantitation limits, insert the IDL (Form X) for the raw value; refer to Form XIII to obtain each sample preparation weight and volume used. The quantitation limit thus obtained is specific for each sample and preparation method.

Page 6 of 6

The laboratory marked results for the Ni analyte in SDG MCJB18 and for the Al and Ca analytes in SDG MCJB20 on Form Is with an * denoting soil laboratory duplicate results outside of the contractual control limits of 20% RPD or \pm CRDL. However, the technical control limits of 35% RPD or \pm 2xCRDL were not exceeded for these analytes. The affected data were not qualified during validation.

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Dilutions were made during the analysis of Se which affected the quantitation limits in some samples. Table 5 is a summary of those samples, the dilutions used, and the resultant quantitation limits.

The analytical spike recoveries were high for the Se and Tl analytes in all the SDGs for several samples. These analytes were not detected above their IDLs. High recoveries do not affect quantitation limits; therefore, no data were qualified based on these high spike recoveries.

The data were reviewed in accordance with the National Functional Guidelines for Evaluating Inorganic Analyses, with modifications for use within Region III.

INFORMATION REGARDING REPORT CONTENT
Table 1A is a summary of qualifiers added to the laboratory's results during evaluation.

ATTACHMENTS

SB308A10.SDU

TABLE 1A	SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION
TABLE 1B	CODES USED IN COMMENTS COLUMN
TABLE 2	GLOSSARY OF DATA QUALIFIER CODES
TABLE 3	DATA SUMMARY FORM
TABLE 4	SAMPLES EXCEEDING THE CHEMICAL HEALTH ADVISORY LEVEL
TABLE 5	SAMPLES REQUIRING DILUTION AND RESULTANT ELEVATED QUANTITATION LIMITS
APPENDIX A	RESULTS REPORTED BY LABORATORY FORM IS
APPENDIX B	TPO REPORT
APPENDIX C	SUPPORT DOCUMENTATION

Page 1 of 5

TABLE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

ANAL	YTE SDG	SAMPLES AFFECTED	POSITIVE VALUES	non- detected <u>values</u>	BIAS	COMMENTS*
Al	MCJB18	MCJB25,MCJB39	В	÷	HIGH	A(1720 μg/L)
	MCJB20	MCJB27,MCJB28	B 45		HIGH	A(1720 μg/L)
	MCJB44	All samples	3		HIGH	A(1720 μg/L)
	MCJB46	All samples except MCJB50,MCJB57	В	•	HIGH	λ(1720 μg/L)
Sb	MCJB18	All samples	L	UL	LOW	B(88.4%) C(56.9%)
	MCJB20	All samples	L	UL	LOW	C(41.2%)
	MCJB46	All samples		UL	LOW	3(88.9)
As	MCJB18	MCJB19,MCJB25, MCJB40,MCJB60, MCJB62	J			D(112%,73.0%)
		MCJB18,MCJB37, MCJB38,MCJB39, MCJB41,MCJB42, MCJB61	L		LOW	C(73.0%)
	MCJB20	MCJB31,MCJB43	L ·	· · · · · · · · · · · · · · · · · · ·	LOW	C(69.3%) E(80.5%,80.0%)
		MCJB20,MCJB21, MCJB23,MCJB24, MCJB26,MCJB27, MCJB28	J	•		D(113%,69.3%)
		MCJB22,MCJB29, MCJB30,MCJB32- MCJB36	L		LOW	C(69.3%)
	MCJB44	MCJB44	K	٠.	HIGH	F(112%)

^{*} See explanation of Comments on Table 1B.

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TRELE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

4.57						
AN	ALYTE SDG	SAMPLES AFFECTED	<u>YALUES</u>	VALUES	BIVS	COMMENTS*
As	MCJB46	MCJE46,MCJE47, MCJE49,MCJE50, MCJE53,MCJE55		R EXT	REMELY LOW	G(-2.5%)
	٠.	MCJB48,MCJB52, MCJB54,MCJB56, MCJB57			LOW	G(-2.5%) E(75.5%-84.5%)
Be	MCJB18	All samples except MCJB42	В		HICH	H(1.2 μg/L)
	MCJB20	All samples except MCJB29	B		HIGH	H(0.8 μg/L)
Cđ.	MCJB18	MCJB18,MCJB37, MCJB38,MCJB60, MCJB62	K		HIGH	F(111%) .
	MCJB20	MCJB29,MCJB30	K		HIGH	F(116%)
	MCJB44	MCJB44,MCJB45	B		HIGH	H(2.6 μg/L) F(115%)
Ca	MCJB18	МСЈВ40	B		HIGH	λ(1320 μg/L)
	MCJB20	MCJB34	B	· · · · · · · · · · · · · · · · · · ·	HIGH	λ(1320 μg/L)
CI	MCJB20	All samples	J			K(8.0 mg/Kg)
	MCJE44	MCJE45,MCJE51, MCJE59		UL	LOW	B(78.5%,84.4%)
	MCJE46	All samples	4. 4	UL 1 1 1 1 1 1 1	LOW	E(82.6%,82.5%)
Cu	MCJB44	MCJB45,MCJB51	B	saft .	HIGH	H(6.4 µg/L)
	MCJB46	All samples	L	UL .	LOW	B(84.8%)
Fe	MCJB44	MCJB45,MCJB59	B	* *** *	HIGH	λ(207 μg/L) I(11.3%)
∪ s	ee explan	MCJB44,MCJB51 ation of Comments on	J Table 1B	•		I(11.3%)

Page 3 of 5

TABLE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

ana	LYTH SDG	Samples affected	POSITIVE VALUES	NON- DETECTED VALUES	BKIE	COMMENTS •
Fe	MCJB46	MCJB46,MCJB48, MCJB50,MCJB52, MCJB55,MCJB56	3		HIGH	λ(207 μg/L)
Pb	мслв20	MCJB36	J			J(0.993)
	MCJB44	MCJB45,MCJB51 MCJB59	В		HIGH	λ(6.6 μg/L)
	MCJB46	All samples except MCJB47,MCJB50, MCJB52,MCJB56, MCJB57	3		HIGH	λ(6.6 μg/L) Κ(4.3 μg/L)
		мсјв47	В		HIGH	λ(6.6 μg/L) F(113%) K(4.3 μg/L)
	•	MCJB50,MCJB52,	В		HIGH	λ(6.6 μg/L) F(113%) K(4.3 μg/L) E(82.0%-83.6%)
		MCJB56	3		HIGH	λ(6.6 μg/L) K(4.3 μg/L) E(84.2%)
		MCJB57	В	• .	HIGH	H(2.1 μg/L) K(4.3 μg/L) E(78.7%)
Mn	MCJB20	All samples	J			X(66.4%)
	мсјв44	MCJB45,MCJB51, MCJB59	3		HIGH	λ(45.4 μg/L)
•	MCJB46	MCJB46,MCJB47, MCJB50,MCJB52	3	•	HIGH	λ(45.4 μg/L)
N1	MCJB44	All samples	L	UL ·	LOW	B(86.0%)

^{*} See explanation of Comments on Table 18.

Page 4 of 5

TABLE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

anai	YTE SDG	SAMPLES AFFECTED	POSITIVE VALUES	non- Detected <u>Values</u>	BIAS	COMMENTS*
Se .	MCJB18	MCJB25,MCJB37	J	e de la companya de l	HIGH	J(0.970,0.968) F(156%)
		MCJB18,MCJB39, MCJB40,MCJB41		* † VL	LOW	E(49.0%-83.9%)
•	MCJB20	All samples except MCJB22, MCJB29,MCJB30, MCJB35,MCJB36	L	OL.	LOW	C(55.0%)
		MCJB29,MCJB30, MCJB35,MCJB36	e*		LOW	C(55.01) E(69.51-82.81)
	. ,	MCJB22	J		ļ t	D(147%,55.0%, 76.5%)
	MCJB46	All samples except MCJB46,MCJB53, MCJB54,MCJB55	•	R EXT	LOW	G(6.8%)
		MCJB46,MCJB53, MCJB54,MCJB55	L	R EXII	LOW	G(6.8%) E(77.4%-80.6%)
Ag	MCJB20	MCJB22,MCJB31, MCJB43	ĸ		HIGH	F(120%,123%)
Na	MCJB18	All samples except MCJB41	B		HIGH	A(380 μg/L)
	MCJB20	All samples	B		НІСН	A(380 μg/L)
Tl	MCJB20	All samples except MCJB32,MCJB33		υL	LOW	B(80.2%)
		мсјвза, мсјвзз		UL.	LOW	B(80.2%) E(73.3%-79.0%)

^{*} See explanation of Comments on Table 18.

Page 5 of 5

TABLE 1A SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

ANAI	LYTE SDG	SAMPLES AFFECTED	Positive Values	non- Detected Values	BKIE	COMENTS :
Tl	МСЈВ44	MCJB44,MCJB45, MCJB51,MCJB55		UL .	LOW	C(71.5%) E(55.9%-78.4%)
	MCJB46	All samples except MCJB57	·	UL	LOW	B(88.0%) E(56.3%-80.4%)
		MCJB57		UL	LOW	E(80.4%)
Zn	MCJB44	All samples except MCJB44	В		HIGH	λ(13.1 μg/L)
	MCJB46	All samples except MCJB55,MCJB57	3		HIGH	λ(13.1 μg/L)
CN	МСЈВ44	All samples	L	ᅋ	Low	C(72.2%)
	MCJB46	All samples	L	UL	LOW	C(50.0%)

^{*} See explanation of Comments on Table 1B.

TABLE 1B

CODES USED IN COMMENTS COLUMN

- A = The field blank (FB) had a result >IDL (the result is in parentheses) and the reported results were <5x the blank concentration. The reported results may be biased high.
- B = The Contract Required Detection Limit (CRDL) standard recovery was low (% recovery is in parentheses). The quantitation limits and the reported results >IDL but <2xCDRL may be biased low.
- C = The matrix spike recovery was low (% recovery is in parentheses). Quantitation limits and reported results may be biased low.
- D = The CRDL recovery was high and the matrix spike and/or analytical spike recoveries were low (% recoveries are in parentheses) resulting in an opposing bias effect. The reported results may be estimated.
- E = The analytical spike recoveries were low (* recovery or range of recoveries are in parentheses). Quantitation limits and reported results may be biased low.
- F = The CRDL standard recovery was high (* recovery is in parentheses). The reported results >IDL but <2xCDRL may be biased high.
- G = The CRDL standard recovery was below 50% (% recovery is in parentheses). The reported result may be biased low and quantitation limits may be unusable.
- H = The CCB had a result >IDL (the result is in parentheses) and the reported results were <5x the blank concentration. The reported results may be biased high.
- I = The ICP serial dilution result was outside of the control limit (the result is in parentheses). The reported results may be estimated.

Page 2 of 2

TABLE 19

CODES USED IN COMMENTS COLUMN

- J = The correlation coefficient for the MSA was less than 0.995 (the correlation coefficient is in parentheses). The reported result may be estimated.
- K = The laboratory duplicate result was outside of the control limit (actual RPD or Difference is in parentheses). Reported results may be estimated.

TABLE 2

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO IDENTIFICATION (Confidence concerning presence or absence of analytes):

Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

CODES RELATED TO OUANTITATION (can be used for both positive results and sample quantitation limits):

- J = Analyte Present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- [] Analyte present. As values approach the IDL the quantitation may not be accurate.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

DATA SIMWAAT FORM: I M B R G A M I C S

7

Page

TABLE . 3

SOIL SAMPLES (mg/Kg)

Sampling Date(s): 6/3/93

Case 6: 20161

SDG #: MCLAN

CAIN STACET DUMP

bitte Hame:

+ Due to dilution, seeple quantitation liait is effected. See dilution table for specifics.

	Sample Me.	l scuste	918128	Š	ecur25		CLB37	- MCABA		NC.1039		0781.78	-	1787.34	CYBI JAI		oyer on t	
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	# Selle	3.3	14.7	3	3	4	6.00	3		- -		3	-	2.5				Ī
	Location	1-63-	3	7	1-035	7	2-1105	9-1105		e mar		2.75		11-11 0 5	21-1103	~	21-1208]
	•			- -											! — ·		-	
7 700	AMALVIE		ب کنت در		•							· .	-					
3	Altaina	9810	933		1020		- 937	0253	-	0/91]	- 9494	<u> </u>	14500	12400	-	26.26	Ī-
7727	And Leastly	1	1	1	3	1	3		3	16.51		3		2.0	' ! -	13	 -	
7	Arsende	7-2-5-1	1.2.51	-	1 1 1	-2	<u></u>	6.5	-	12.4		3.2	 	33.6	7.6	<u>'</u>		- - -
181	Barles		1.7.	1	10.61	7	249	672		173.2		14.51	-	3	293	<u> </u>	=	<u> </u> -
-	Beryll lim		1.10.511	븝	10.431[0	۲	10.491	13.07	<u>-</u>	16.231	_	16.43		10.551	7.1	<u> </u> _	10,33	-
-	Codalus	7.5.	-	4		극	÷,	- 2.0	ا ا	5					7.5	<u> </u>	10.40	
1000	Calcium	1-14600	922	3	6103	7	83	588	4	230		1000		67.70	64700	_	27	 -
7~	Chronium		4.5.	1	7-7-7-	7	3		<u> </u>	11.5		29.2	2	57.5	7.3		2:5	 -
- 1	Cobalt	1.01.41	1-6-51	=	-4.31	7	1.5.7	-1.46.51	4	16.51	Ī	.te.n		13.4	10:01		2.2	
7	Copper		1.27	4	7 3	7	3	78	4	30		16.3			2		25.7	
- 1	173	-	9841	5	386	7	300	2000	<u> </u>	27.25		25800		73900	23800	_	2003	
-1-9-0-1	Plead	150	723	3 	43.4	7	- -	- E		88		9.6		1530	Ž	<u> </u>	15	 -
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	Hanganese	- X-		Ĭ	<u>_</u>	7	22	777	4	<u> </u>		3	~	193	22		355	
1-0-1	Hercury		10.2	4		극		9.64	<u> </u> -	16.73			-	0.65	6.23			
-	Michal	-1-167-1-	12.4	큭	-15.71 -1	7	-	- X-	4	12.5	Ī	14.9	7	××	7:5		27.5	
	Paterolin		- Capacing	<u> </u>	12.2	극		1534	4	1 3 1		13671	<u>"</u>	[443]	1997		(316)	
1-1	Selenies	1		۲	16.931	<u>~</u>	7	4	+		3	3		3				
77	SE Ver	٦	707	4	7 7 7	극	-		1	= 1]	===	-	1.5	12.21			
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3 1	Venedice	1.5	12:3	<u> </u>		7	7	1215	4			7.4	-	55.9	7.7		23.0	
7	2 inc	747	3	4	37.3	3	95	53		35		45.4		1520	**		197	
	Cyenide			4	<u> </u>	4	-	2.0						6.73				
_				4	-	4	<u> </u> 											0.5
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DATA SUPPLARY FORM: 1. D. R. G. M. I. C. S.

Page 2

SOIL SAMPLES TABLE - 3

(#B/K8)

Sampling Dete(s): 6/3/93

e #: 20101

P: MC.818

68TH STREET DUMP

• Heme:

+ Due to dilution, semple quantitation limit is effected.

See dilution table for specifics.

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	blittien factor	9.	1.0				:		-				7
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<u>;</u>	_ partyling		7							1			_
<u> </u>	Codelin							-					<u> </u>
	Colcium	1.3556	13180						<u> </u> _	-			<u> </u>
~	Chronica	417	59.1						<u> </u>				7-
=	Cobett	14.03	1 (10.6)	_	_				† -	-			7
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N	. Hangenese	-1-2-1-	134										T-
7	Mercury	16.6	6.7				-		_	-		_	Ī
	1 1	12.1	1 41.6						<u> </u>				7-
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8		177.99	6 IZ413 P							_			7-
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2) 1	7.6	39.5						<u> </u>	<u> </u>			7-
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11	11						tu-	•				.14)	4.
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DATA SLEWARY FORMS IN OR GANICS.

Page 3

TABLE - 3 SOIL SAMPLES

(my/ke)

+ bus to dilution, sample quantitation timit is effected.

Case #: 20101 Suppling Date(s): 6/2/03

GATH STREET DUMP

Site Hene:

SDG #: MC1820

9	MC1820				•								1		; •		See dilution table for specifics	tion tab	te for s	pecifics.
	Sample Ho.	MC1820	$ \vec{\ } $	JE4423	7	MC 1822		JC1823		HC.1824		MC.1826	-	MC.1027	-	MC 1028	Ä	10.00	9	
	Bilution factor	9:1-	٦	1.0	1	1.		1.0			 	-] _ 	9				3
	X Solids	7:5	7	77.6	1	2.8	7	7.75		78.2		9.0	i –	79.2	<u> </u>		× 2 			
	Lacation		7	1.65	-	266.5	7	9-035	7	7-93	 	6-035		\$60-10		1-63	9	21-03	2 93	12
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	**************************************				<u>.</u>	MC.1830	-						_		_		_		MC.1022	~
3	Altaina	2550		3140		1750	3 -	9669	7 -	3190	<u>-</u> -	14.16 L	<u>:</u> -	1919	÷-	4200	÷.	-		
2	_		1		=		3		3			Ī	=					7	9 2 1	7
7	Arsenic	12.41	3	(1.1)	-	9.2		7.7	: —	12.21	† –	11.71	7 -	1.51	7 –	1			- -	<u>.</u>
3,	L Barlen	[[K.11]								13.41	ļ —	147.0	 -		 -	1-	┧~		; - -] -
=	L. Beryllina	162.61	3			(19.01)		163.		19.53	 -	E . 43	<u> </u>	12,73	- -	197.91		-] <u>.</u>
=	Codelon						-	 	 		 -		 		- -					7
3		7310		20806		0239	15	818	<u> </u>	6370	<u></u>	3%	<u> </u>	87%	- -	202	osyaz –		E	
~	Chronium	13.5	3	19.0		43.6		35.4	_	15.4	-	7	<u> </u>	2	<u> </u>		3		* * * *	<u> </u> -
2	Cobelt	1.6.11		14.61		111.11	=	11.11		u.n	- -	2.5	<u> </u>			17.2				Ţ
7	2 Coffee	38.4			1	73.6		•		15.4		15.5			<u> </u>		2.5	-	7 57	
뢵	E .	1,10000		90211	7	32200	7	17100		16700		22		983	<u> </u>	25	652		90002	<u> </u>
3	-tead	1.25.9		9.8	7	# T	7	121		37.1		55.0		1.5	<u> </u>	3	78		2	
3	_ Nagnes lun	228		828	7	3420		5720		3150		93		3		32	2072	3	2620]_
7	_ Hanganese	1.87	3	282	7	280	7	IX.		3	_	121		42.4	_	3	1 × × × × × × × × × × × × × × × × × × ×		121] <u>-</u>
3	- Harcury					67.0	-	6.28							<u> </u>		3	3	3	<u> </u>
-	_ wickel	- (8.6) -	J	LE.S.		7:2		777		19.01		19.61		11.41		15.03	16.2	-	5.2]
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99	- Sodies	1.081]		1	12041	<u>-</u>	1351	j	(162)	-	154.31	-	(76.6)		16.091	1976)	9	(305)	•
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7	L. Cyanida	627]		1		ᅥ		7		1		+		<u>-</u> [1			
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4	. Contract Bequired Detection Liait	Detection L	ĭ		٠			*Action towel Exists	Ī	Exists							SEE WAR	1118 19	E CERT	MARRATIVE FOR CODE DEFINITIONS

AR000124

Selection (

DATA SUPPARY FORM: I B O R G A B I C S

Soil sames (mg/kg)

#: 20101 Sempling Dete(s):

#: HCJ820

601A STREET DUMP

More:

. Due to diluction, sample quantitation timit to affected.

See dilution table for specifics.

Sumple in July Ju						i je		-	<u> </u>	<u> </u> _			<u> </u> _	<u> </u> .	<u> </u> _	<u> </u>	<u> </u> _	<u> </u> _	<u> </u>	<u> </u> 	<u> </u> _	<u> </u> _	<u> </u> 	-	<u> </u> _	<u> -</u> 	_	<u> </u> _	<u> </u> _	<u> </u>	<u> </u>	<u> </u> _
Simple Re. Jic. 831 Jic. 833 Jic. 835	-	<u> </u> .	<u>.</u>	-	<u> </u> _			-	<u> </u> -	<u> </u>	<u> </u>	<u> </u> _	 -	-		<u> </u> -	-		-		_	_	_	 -	<u> </u> _		-	-	_	 -	-	 -
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Sample No.	-	<u> </u>	<u> </u> _	<u> </u> _	_				 			 -	 - -	-	 s	 - -	 - -	 - -	 - -	 - -	-		 		3	 - *	_	_		 - -		 - -
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Sample No. JACAR31 JACAR32 JACAR33 JACAR34 JACAR35 JACAR34 J	10.56			1.0			70302203030	2				(3)		2	-	5	, -	_ 	2	9		2		12	5		1.33	5	•			
Sample No.	, K	<u> </u>	<u> </u>	8	_				-	13.4	×	9	}	K	~	2	2	<u>~</u>	2	22	ž		2	191	3	-	-	- 1	 –	<u>`</u>	<u> </u>	<u> </u> _
Sample No. PRCMS3 PRCMS3 PRCMS3 PRCMS3 PRCMS3 PRCMS4 PRC	MCJ935			201.5				9099		3.5	1.2	[re.46]		200	2.2	5.5	22.1	13160	73.6	162 S	213	2.0	15.51	[410]			11021	 !_	40.2	2		
Sample No. PC-831 PC-832 PC-833	¥ .						1000000000		5	<u>ار</u>	=	5		<u>.</u>	<u> </u>					-	<u>-</u>	35		15	3	·			<u>. </u>			_
Simple No. Pic. 1.0 1.0	L HCJ	1.0	2	Į,	-			78			122	-		ě	-	103.5		5%	57.0	2	-	Ē	12.				-	_	1	5	<u> </u> _	_
Sample No. 110.00 11.0 1	HC.M33	•	2	5011-3				14300	39.0	34.7	22	10.321	101	9269	138	35.7	1240	90299	2600	265	9902	9.50	112	2200	10.4	12.4	(956)		7.06	955		
Sample No. JRC.831	2					, , , ,			<u>₹</u>			<u>•</u>			_	i,	2			_	_				_		•	1				_
Sample 10. PC-1831 X Selids 21.4 X Selids 21.5	- Leca		07.6	Tes.				6260		7.82	***	7.67		1000	177	6.81	5278	4 28	163	22.2	138	1-42	121					-	30.5			
Sample No. X Selida Lecation X Selida Lecation Aluminaa Codelu Codelu Codelu Codelu Codelu Aluminaa Seleniua	PCJ031	1.0	91.6	solt-1			***************************************	1 80061	₹.	R.83		19.63	10.2	11400		16.3	3340	36000	588	63.5	8	=	139	(144)		ş. m. ş.	11		92.6	2 2		11.0
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	3	Plista	*	3		AMALYTE			1	Arsenic	_	_			_	Cobalt	Copper	<u> </u>		Hegnet L	Herrgene	_ Heroury	Hetel	Potesti	- Selenie	Silver				2 2 2		1

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DATA SLAWARY FORM: IN OR & A MICS

Page 5

WIER SAMPLES TABLE - 3

3

+ Due to dilution, sample quantitation limit is effected.

See dilution table for specifics.

6/3/93 Sampling Date(a): GOTH STACET DUMP

SDG 8: NC.1844

Case 6: 20101

Site Home:

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DAIA SIPWARY FORMS

3.

LATER SAPPLES

6/2/33

Sampling Dato(s):

Hee #: 20101

6 #: MCJ846

681# STREET DUMP

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· Due to dilution, sample quantitation limit is affected.
See dilution table for specifica.

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DATA SLAWARY FORM: I H O R G A H I C S

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Page 7

TABLE - 3 WATER SAMPLES 3

Supting Date(s): 6/2/93

SDG #: NC.1846

Case #: 20101

6818 STAEET BUNG

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TABLE 4

SAMPLES EXCEEDING THE CHIMICAL HEALTH ADVISORY LEVELS

	and the second second		on the Dnits	mg/Kg
<u>Analyte</u>	SDG	Samples	Advisory	Reported
	.*		Limit	<u>Result</u>
Pb	MCJB18	MCJE18	500	
	*, **	MCJE39	500	2990
		MCJE41	500	1530
	•	MCJB61	500	723
	MCJB20	MCJB31	500	558
		MCJE33	500	2680
	*	MCJB43	500	552
			Units	ug/L
	MCJE44	MCJE44	20	157

TABLE 5

SAMPLES REQUIRING DILUTION AND

RESULTANT ELEVATED QUANTITATION LIMITS

				ts mg/Kg	
Analyta	SDG	<u>Samples</u>	Original Ouantitation Limit	Dilution Factor	Resultant Ouantitation Limit
Se	мсјв19	MCJB38 MCJB61	0.82 0.86	5 5	4.1 4.0
•	MCJB20	MCJB31 MCJB43	0.81	5 5	4.0 3.9

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ATTACHMENT II

119

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY





REGION III CENTRAL REGIONAL LABORATORY 201 DEFENSE HIGHWAY SUITE 200 ANNAPOLIS, MARYLAND 21401

QUALITY ASSURANCE BRANCH

DATE

: October 4, 1993

SUBJECT:

Region III Data QA Review

FROM

Cynthia E. Caporale C. Cupile

Region III ESAT RPO (3ES30)

TO

Ginny Sells

State of Maryland

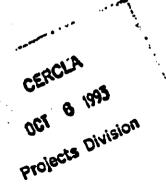
Attached is the organic data validation report for the 68th Street Dump Site (Case 20101) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 573-6832.

Attachment

cc: Regional CLP TPO: Stevie Wilding Region: 3 Lab Code: ENVSYS

TID File: 03930418 Task 3378



SLockheed

Environmental Services Assistance Teams Region 3 1419 Forest Crive, Suite 104 Annapolis, Maryland 21403

Phone: (410) 258-7705 Fax: (410) 258-8472

DATE: September 24, 1993

SUBJECT: Organic Data Validation For Case #20101

Site: 68th Street Dump

FROM: M. Hamid/F. Petraitis Mahboobeh Mecanic

Organic Data Reviewers Senior Oversight Chemist

To: Cynthiar E. Caporale

ESAT Regional Project Officer

THROUGH: Dale S. Boshart &

ESAT Team Manager

OVERVIEW

Case 20101, consisted of three (3) sample delivery groups (SDGs). The case consisted of sixteen (16) aqueous and twenty-nine (29) soil samples submitted to ENVSYS for volatile, semivolatile and pesticide/PCB analyses. The case included one (1) trip blank which was analyzed for volatile only, one (1) field blank, one (1) aqueous and two (2) soil field duplicate pairs. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS).

SUMMARY

All samples were successfully analyzed for all target compounds. The analysis was performed according to the 3/90 Statement of Work (SOW) for Low/Medium concentration organics. All instrument and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Service (RAS) protocol.

MINOR PROBLEMS

- o Several compounds failed precision criteria (*RSD and/or *D) in the volatile and semivolatile initial and/or continuing calibrations. The positive results were qualified "J", except when superseded by the "B" qualifier and the quantitation limits were qualified "UJ" when the *RSD or the *D were grossly exceeded (>50*) for these compounds in the affected samples. See Table I in Appendix F.
- o The semivolatile extraction of soil samples CKW20, CKW21, CKW22 and CKW43 was performed at least twenty (20) days after the date of sample collection. Although no technical extraction holding time has been established for soil samples,

10/11/11

the technical holding time of seven (7) days for aqueous samples has been exceeded by at least thirteen (13) days. The quantitation limits for these samples were qualified "UJ" and positive results were qualified "J", except when superseded by the "B" qualifier. See Form Is in Appendix C and traffic reports in Appendix F.

- The pesticide/PCB extractions of the soil samples CXW18, CXW19, CXW41, CXW42, CXW60, CXW61 and CXW62 were performed eleven (11) to twelve (12) days after the date of sample collection. Although no technical extraction holding time has been established for soil samples, the technical holding time of saven (7) days for aqueous samples has been exceeded by four (4) to five (5) days. The quantitation limits for these samples were qualified "UJ" and positive results were qualified "J". See Form Is in Appendix C and traffic reports in Appendix F.
- In the initial volatile analysis of sample CKW37, acetone exceeded the linear calibration range. The diluted analysis of this sample was performed twenty-six (26) days after the date of sample collection. Although no analyses holding time has been established for volatiles in soil samples, the technical holding time of fourteen (14) days for aqueous samples has been exceeded by twelve (12) days. The result for acetone in this sample was reported from the diluted analysis. The "L" qualifier was superseded by the "B" qualifier on the data summary forms (DSFs). See Form Is in Appendix C and traffic reports in Appendix F.
- The volatile analyses of several samples had the recoveries of the System Monitoring Compounds (SMC) and/or Internal Standard (IS) areas outside the QC limits as summarized in the following table:

	· ,	
<u>Sample</u>	SMC	IS
CKW35	440	IS3
CKW35RB	SMC3	IS3
CKW41	SMC3	IS3
CKW41RE.	SMC1, SMC3	IS1, IS2, IS3
CXW18	SMC3	IS3
CKW18RE	SMC3	IS3
CXW19	SMC3	IS3
CKW19RE	SMC3	IS2,IS3
CXW36	SMC3	
CKW36MS	SMC3	IS2, IS3
CKW3 6MSD	SMC3	IS1, IS2, IS3
CKW42	SMC3	IS1, IS2, IS3
CKW42RE	31143	IS3
— -	SMC3	IS3
CKW60	3MC3 ·	IS3
CKW60RE		793

Sample		SMC		IS "
CKW61		SMC3	* · · · · · · · · · · · · · · · · · · ·	IS2,IS3
CKW61RE CKW62		SMC3		IS1, IS2, IS3 IS1, IS2, IS3
CKW62RE CKW31		SMC3		IS2,IS3
CKW31RE	-		•	IS3
CKW33 CKW33RE				IS2,IS3 IS2,IS3

Results from the initial analyses of all samples were reported on the DSFs. In samples CKW41, CKW41RE, CKW18, CKW19, CKW36, CKW42, CKW60, CKW61 and CKW62, the quantitation limits were qualified "UJ" and positive results were qualified "J", except when superseded by the "B" qualifier. In samples CKW31, CKW33 and CKW35, the quantitation limits and reported results for compounds using IS3 (CKW31) and (CKW35) or IS2 and IS3 (CKW33) were qualified "UJ" and "J", respectively. See Form VIII VOA in Appendix F.

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
SMC3= 1,2-dichloroethane-d4

The semivolatile analyses of several samples had the area of the internal standard IS5 and/or IS6 outside the QC limits as summarized in the following table:

Sample	<u>IS</u>
CKW36	ISS
CKW36RE	IS5
CKW37	IS6
CKW37RE	IS6
CKW42	IS6
CKW41	IS5, IS6
CKW41DL	IS5, IS6

Results from the initial analyses were reported on the DSFs. The quantitation limits and positive results for compounds using the above internal standards were qualified "UJ" and "J" respectively, in the affected samples. See Form VIII SV in Appendix F.

Page 4 of 9

- O In the pesticide/PCB analyses of the aqueous samples CKW44 to CKW49 and CKW51 to CKW55 the recoveries of the surrogate decachirobiphenyl (DCB) were below the QC limits on both columns. The quantitation limits in the above samples were qualified "UJ". See Form II pest-1 in Appendix F.
- o In the pesticide/PCB analyses, sample CKW50 had three surrogate recoveries below the QC limits. The quantitation limits for this sample were qualified "UL". See Form II pest-1 in Appendix F.
- o In the pesticide/PCB analyses, sample CKW57 had the recovery of surrogate tetrachloro-m-xylene (TCX) below the QC limit on both columns. The quantitation limits were qualified "UJ" and positive results were qualified "J". See Form II pest-1 in Appendix F.
- o In the pesticide/PCB analyses, samples CKW39 and CKW43 had all surrogate recoveries below the QC limits. The quantitation limits were qualified "UL" and positive results were qualified "L", except when superseded by the "J" qualifier. See Form II pest-1 in Appendix F.
- o In the pesticide/PCB analyses of sample CKW41 surrogates TCX and DCB yielded high recoveries on different columns. Positive results were qualified "J". See Form II pest-1 in Appendix F.
- o In the pesticide/PCB analyses of sample CKW62 surrogate TCX yielded high recovery on one (1) column and low recovery on the other column. Quantitation limits were qualified "UJ" and positive results were qualified "J". See Form II pest-1 in Appendix F.
- o The "P" qualifier used in the pesticide/PCB Form Is denotes a percent difference (%D) greater than (25%) between the reported results on the two (2) columns used for the analysis. The positive results were qualified "J" in the DSFs. See Form Is pest in Appendix F.

NOTES

The maximum concentrations of all compounds found in the analyses of the field and laboratory method blanks are listed below! Samples with concentrations of common laboratory contaminants less than ten (10) times the blank concentration or with concentrations of other contaminants less than five (5) the blank concentrations, have been qualified "B" on the data summary forms.

Compound Methylene chloride* Acetone* 23 ug/kg 2-Butanone* 16 J ug/kg 2,4,6-Trichlorophenol 4 J ug/l Di-n-butylphthalate* 900 J ug/kg

- * Common laboratory contaminants
- o In the volatile analyses, sample CKW44 was reanalyzed because BFB was slightly below the QC limits. The reanalyses had the recovery of surrogate 1,2-dichloroethane-d4 outside the QC limits. Results from the initial analysis were reported on the DSFs. No action was needed. See Form II VOA 1 in Appendix F.
- o In the volatile analyses of sample CKW47MSD surrogate 1,2-dichloroethane-d4 yielded high recovery outside the QC limits. No action was taken . See Form II VOA-1. in Appendix F.
- o The initial semivolatile analysis of sample CKW42, performed at a 10% dilution, had the area of IS3 outside the QC limits. Several target comounds were detected in this analysis. In the reanalysis of this sample, performed at a 50% dilution, all compound were diluted out. Results from the initial analysis were reported. The quantitation limits and positive results quantitated using IS3 were qualified estimates as previously mentioned under minor problems. See Form II SV-2 in Appendix F.
- The semivolatile extraction of the several soil samples were performed eight (8) days after the date of samples collection. Although no technical extraction holding time has been established for soil samples, the technical holding time of seven (7) days for aqueous samples has been exceeded by one (1) day. Since most of the semivolatile compounds are stable and persistent in the soil matrix, no action was taken. See Form Is in Appendix C and traffic reports in Appendix F.
- o In the pesticide/PCB analyses, surrogates TCX and DCB yielded recoveries outside the QC limits on one (1) or both columns for the method blanks PBLK60, PBLK62 and PBLK65. No action was taken. See Form II Pest 1 in Appendix F.
- o In the pesticide/PCB analyses, the initial calibrations dated 7-1-93 and the performance evaluation mixture (PEM) dated on 7-7-93 had several compounds outside the QC limits. No positive results were detected in the associated samples for the initial calibration and no samples were associated with

16/2/2.

the PEM sample. No action was taken. See Form VI pest-2 Form VIII pest in Appendix F.

- o In the semivolatile analyses, the internal standards IS5 and IS6 exhibited areas outside the QC limits in sample CKW36MSD and IS5 exhibited area outside the QC limits in sample CKW21MSD. No action was needed.
- O In the pesticide/PCB analyses, samples CKW57, CKW23, CKW29, CKW32, CKW31, CKW38, CKW41, CKW18, CKW42, CKW60 had one surrogate recovery outside the QC limits. No data were qualified. See Form II pest 2 in Appendix F.
- Non-spiked compounds, other than blank contaminants, were detected in the semivolatile and pesticide/PCB analyses of samples CKW21, CKW36 and their MS/MSD analyses. The results and precision estimates are as follows:

	Conce	intrations (uo	r/kg)	•
Compound	CKW21	MS	MSD	<u>≹RSD</u>
Phenanthrane	180 J	530	330. J	50
Fluoranthene	410 J	1100	720	46
Benzo(a) anthracene	מא	310 J	220 J	33*
Chrysene	160 J	320 J	250 J	33 ·
Bis(2-Ethylhexyl)		Ÿ		
phthalate	240 J	220 J	290 J	14
Benzo(b) fluoranthene	400 J	810	540	36
Benzo(a) pyrene	150 J	140 J	ИD	7*
Benzo(g,h,i)perylene	140 J	ND	ND	IN
Alpha chlordane	6.6	10	11	25
Gamma chlordane	7.2	10 J	9.1 J	16
	CKW36	MS.	MSD	1RSD
Benzo(b) fluoranthene	170 J	120 J	ND	34*

[₹] RSD = Percent Relative Standard Deviation

^{* =} Relative Percent Difference used instead of %RSD

ND = Not detected

Three (3) field duplicate pairs were analyzed. The results and precision estimates for the soil duplicate pairs CKW22/CKW33 and CKW31/CKW43, excluding the plank contaminants, are listed in the following tables. No target compound were found in the aqueous field duplicate pair, samples CKW48 and CKW56.

Concentrations (ug/kg)

Compound	CKW22	CXM30	RPD
Toluene	7 J	10 J	35
4-Methylphenol	280 J	710	87
Phenanthrene	280 J	240 J	15
Fluoranthene	900 J	720	22
Pyrene	640 J	300 J	72
Benzo(a)anthracene	340 J 🗀	330 J	· 3
Chrysene	390 J	360 J	8
Bis(2-Ethylhexyl)		and the second of the second o	
phthalate	ND	220 J 🥇 🐪	ND
Benzo(b) fluoranthene	1000 J	770 J	26
Benzo(a) pyrene	410	ND	IN
Indeno(1,2,3-cd)-			
pyrene	320 J	ND	IN
Benzo(g,h,i)perylene	420 J	ND	IN
Alpha chlordane	11	מא	IN
Gamma chlordane	9.3	ND	IN
		ntrations (uo	
Compound	CKW31	CXW43	RPD
Phenanthrene	150 J	מא .	. IN
Fluoranthene	350 J	270 J	26
Pyrene	170 J	160 J,	6
Benzo(a) anthracene	250 J	📜 170 J 💢	38
Chrysene	200 J	140 J	35
Bis(2-Ethylhexyl)		en en en en en en en en en en en en en e	
phthalate	310 J	360 J	15
Benzo(b) fluoranthene	630	520 J	19
Benzo (A) pyrene	סא	170 J	IN
Indeno(1,2,3-cd)-	The second secon	and the second s	
pyrene			
	ND	170	IN
Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND ND ND	170 120 J 230 J	IN IN

RPD = Relative percent difference

ND = Not detected IN = Indeterminate

Alpha chlordane Gamma chlordane

Aroclor-1260

ND

23 J

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IN

-- **RIQ**) -- .

- Due to the high concentrations of target or non-target compounds, the semivolatile initial analysis of sample CKW41 was performed at a 5% dilution. similarly the pesticide/PC3 initial analyses of samples CKW18, CKW19, CKW31, CKW32 CKW41, CKW42, CKW60 and CKW62 were performed at a 10% dilution, while sample CKW61 was analyzed at a 100% dilution. The CRQLs are elevated for these samples because of the dilutions. See DSFs in Appendix 3 and Form Is in Appendix C.
- o In the semivolatile analyses, samples CKW25, CKW27 and CKW41 were reanalyzed at 2X, 2X and 25X dilution respectively, because several target compounds exceeded the calibration range in the initial analyses. Results reported from the diluted analyses were marked with an asterisk on the DSFs. See Form I in Appendix C.
 - o No target compounds, excluding the blank contaminants, were detected in the analyses of sample CKW47 and its MS/MSD analyses. The precision estimates can not be performed.
 - o In the semivolatile and pesticide/PCS analyses of the soil samples, GPC cleanup was performed. The dilution factor of two (2) required by this procedure was accounted for in the analytical procedures used by the laboratory and is not reflected on the data summary forms.
- o The tentatively identified compounds (TICs) in Appendix D were reviewed and corrected during data validation. Compounds identified as blank contaminants were crossed off the TIC Form Is. The semivolatile target compound 1,2-Dichlorobenzene, was detected as a TIC in the volatile analyses of several samples and was crossed of the TIC Form Is.
- The "X" qualifier was applied to the total xylenes result in sample CKW37 and to the results of several TICs in the semivolatile analyses. The laboratory did not explain why they used this qualifier. See Form Is in Appendix C and Form IS TIC in Appendix D.
- o In the semivolatile analyses, the laboratory method blanks yielded several hydrocarbons as TIC contaminants. See Form Is TIC in Appendix F.

All data for case 20101 were reviewed in accordance with the National Functional Guidelines for evaluating organic analyses with modification for use within region III. The text of the report addresses only those problems affecting usability.

ATTACHMENTS

- 1) Appendix A- Glossary of data qualifiers
- 2) Appendix B- Data summary. These include:
 - (a) All positive results for target compounds with qualifiers code when applicable
 - (b) All unusable detection limits (qualified "R")
- 3) Appendix C- Results as reported by the laboratory for all target compounds.
- 4) Appendix D- Reviewed and corrected tentatively identified compounds
- 5) Appendix E- Organic Regional Data assessment summary
- 6) Appendix F- Support documentation

DCN:MH308A21.STR

Appendix A Glossary of Data Qualifiers.

GLOSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION (Confidence concerning presence or absence of compounds)

- U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.
- NO CODE = Confirmed identification.
- B = Not detected substantially above the level reported in laboratory or field blanks.
 - R = Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
- N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION (can be used for both positive results ans sample quantitation limits.)

- J = Analyte present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- UJ = Not detected, quantitation limit may be inaccurate or inprescise.
- UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

Appendix B

Data Summary forms

DATA SUPPLANT FURM: VOLA I I LES

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WIER SAMPLES

(1/00)

6/3/93

Sampling Dete(s): 6/2/93

20101

Cooc #:

SOC# CKW6

Site Heme: 68th StREET DUTP

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20101

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Site Name: 68th Street Dump

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DATA SUMMARY FORM VOLATILES

Page 7 of 36

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- 6-3-93

20101 Sampling Date(s): 6-2-93 SDG#CKU20

Case #:

Site Name: 68th Street Dump

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To calculate sample quantitation limits:

(CROL * Dilution factor / ((100 - Xmoisture)/100)

68th Street Dump Site Name:

6.3-93 Sampling Date(s): 6-2-93 20101

SDG#CKN20

Case #:

SOIL SAMPLES

DATA SUPERARY FORM: VOLATILES

(mg/Kg)

Solt-10 CKINO ≂, 6-1105 CKN39 <u>-</u> 2 9-110s CKUSB - 560-15 501/-21 - 560-16 - 18 1/- | 560-17 501/-4 | 5011-5 CKW35 CKUZ 3 3 3 CKM33 2 CKN32 9.1 2 || 3 1-110541-035 FIELD SZ CCASI CCUK3 -= FIELD DUP. OF 5.632 3 CKW22 2 잍 X Hoisture Location Ditution factor Sample No. Trans-1,3-Dichloropropene 1, 1, 2, 2. Letrachioroethane Cis-1,3-Dichioropropene 1,1,2-Trichloroethane Dibromochi oromethane 4-Nethyl-2-pentanone 1,2-Dichtoropropene ictrachiorocthene Chilorobenzene lotal Xylenes Ethylbenzene 2-Hexanone Bramoform Styrene **Totuene** Benzene 40 9 222 5 2 2, 9 2 2 2 9

AR000152

CROL - Contract Required Quantitation Limit

revised 07/90

SEE MARRATIVE FOR CODE DEFINITIONS

DATA SUPPLARY FOR A 1 1 LES

Site Name: 68th Street Dump

. 6-3-93 20101 Sampling Date(s): 6-2-93

SDG#CKN20 Case #:

SOIL SAMPLES (ng/Kg) To catculate sample quantitation limit (CROL * Dilution factor / ((100 - Xmoisture)/10

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										revised 67,

Page 10 of

To calculate cample quantitation lim

(CROL * Dilution factor / ((100 - Amoisture)/

Site Name: 68th Street Dump

Case #: 20101 Sam

20101 Sampting Date(s): 6-2-93

6-1-93

SOIL SAMPLES (US/Kg)

SEE MARRATIVE FOR CODE DEFINITE FIELD DUP. OF 2011-13 CKM3 CKESI = 2 3 337 3333 3 3 3 3 11-1705 ٤ CROL . Contract Required Quantitation Limit X Holsture Location Dilution fector Sample Ho. Irans-1,3-Dichloropropens 1, 1, 2, 2- letrachloroethane Cis-1,3-Bichlerepropens 1,1,2-Tricklereethene Dibromochieremethene 6-Hethyl-2-pentenone 1,2-Dichlaraprapane Trichleresthere__ iet rachioroethene Chierobenzene Total Mylenes Ethylbenzene Johnson ... COMPOUND 2 2 3 = = 3 2 2 2 3

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AR000154

revised 0,

DATA SUMMARY FORMY O L A I I L E S

Page 11 (of 56

SOIL SAMPLES

(63/En)

20101 Sampling Date(s): 6-3-93

SDGPCKU36

Case #:

Site Name: 68th Street Dump

/Kg)

To calculate sample quantitation limits (CROL * Dilution factor / ((100 - Zaoisture)/100.

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AR000155

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77 Page 14

. Site Name: 68th Street Dump

20101 Sampling Date(a): 6-3-93 SOGREWIS Cane dr

SOIL SAMPLES (ug/Kg) To calculate sample quantitation timi (CRQL * Dilution factor / ((100 - Xmoleture)/)

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2: Hexanone 1.1,2,2-Tetrachloroethare			
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WIER SAMPLES

(Way)

Site Hame: Lais SIREEL DUTP

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To colculate sample quantitation timi (CRDL * Dilution fect . 6/3/93 Sompting Dete(s): 6/2/93 Cose #1 20101

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DAIA SUBBLART FURM:

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ofe.

Site Names 6018 SIREET DUMP

Sampling Bate(a): 6/2/93

Case di

SDEF CKUKE

• 6/3/93

WIER SAMPLES (18) To calculate sample quantitation limits:

(Citol . Dilution factor) CK152 84.4 = 1500 3 _ CK050 3 =, = CKK ä = DLF OF CKLS6 EKE E . = CKINY 3 = CERT 3 CKHS 7.3 -E 3 3 Location Dilution factor Semple Ho. 6-Chlerophenyl-phenylether kenachi er ecyclapentadiene 2, 4, 6- Ir ichloraphanel 2,4,5-1richleraphenel i-Chlere-3-methylphen 2-Hethylnaphtholone lenachl or abut adlene 2-Chieromepthelene 2,4-binitretelum 2,4-binitrotolume Dimethylphtholote 2,4-binitrophenol Diethylphthelate Acemaphthylene Acenephthene __ 2-Hitraenii ine 1-Hitramiline 4-tiftroeniline 6-Eltraphenal Dibentofuran fluorene 5 8 2 2 2 9 2 2 2 3 2 ٦ 힐 킺 8 2 됬 2 2 2 2 결

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AR000158

SEE MARRATIVE FOR CODE DEFINITIONS

"Action Level Exists

1804 - Cautract Required Countitation Limit

1,6-Binitro-2-methylphenol

8

revised 07/90

DAIA SUPPARY FORM: 0 H A

of 36

Page

IMIER SAIPLES

(1/dr)

- 6/3/93

Sompling Dete(a): 6/2/93

20102

Cose Di

99KU 0008

Site Home: 6814 LEEI DUMP

To calculate sample quantitation timits: (CRDL * Dilution factor)

Ditation feator 1.0			Sample No.	CRAKE	CKWS		CHAKE		CRUK 7		crike		CKNK9	-	CECUSO	-	CEIS1	-	CKING?		
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Pentoto,h, 1)perylene	Penzolo.h, l'Iperytens	9	Dibenz(a,h)enthrocene						:			<u> </u> -		-		<u> </u>	<u> </u>	 			
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DATA SLABBARY FORM: # IN A 1

Page 16 of

To calculate sample quantitation tiait.

(Cabl * Dilution factor

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Site Hame: 68IH SIREE! DUAP

20101 - Sompling Date(s): 6/2/93 - 6/3/93

Case #:

SOCA CKNES

MAIEE SAMPLES (ug/L)

(ng/L)

SEE MARATIVE FOR CODE DEFINITION: revised 67/Pt ī CKID9 = 3 **阿拉拉拉拉拉拉拉拉拉拉拉拉拉** 3 CKIS7 1-31e FIELD BLAMK 2 3 5 11.1 CKUKE SESSE *Action tevel Exists CKISS 21-75 = CKIPS = 3 = 2 3 CK163 -CASE - Contract Required Quantitotion Limit 2,2'-anybis(1-chloraprapane) Location Dilution factor Semple He. H-Hitrose-di-n-propylemine bis(2-Chierenthony)methens bis(2-Chloresthyl)ether 1,2,4-1richlerobenzene *1,4.0 ichi erobenzene *1,3-Bichierobentene 1,2-Dichierabentene 2,4-Blacthylphenel 2,4-Dichlerophenol kexachi orosihans 6-Chloroenitine 4-Hethylphenol 2-Methylphenol 2-Chlorophenol 2-Hitrophenel Hitrobenzene naphthalene Sopherene COMPOUND Phenol = 2 릴 2 2 2 2 2 2 릭 = = 2 2 2 2 2 宫 2 200

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2-Hitroaniline

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 \equiv ᅙ 2,6-Dinitretoluene

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tenech lorobut adfem

COMPOUND

2-Nethylnephthelene

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To calculate sample quantitation limits:

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WATER SAFLES

DATA SUPPLARTY "4:

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£2/3/3

Sompting Pote(s): 6/2/93

20101

Con: A:

SPCF CKWA

Site Name: 681H SIREET DUMP

(CROL * Bilution factor)

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Citiz - Contract Regulrad Quantitotion Limit

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2,4-Binitrophenel

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Acenaphthene 3-Hitrosniline

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6,6-Dinitro-2-methylphenol

4-#itroeniline

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SEE MARRATIVE FOR CODE DEFINITIONS

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Site heme: 6818 SIREE DAMP

Sampling Date(s): 6/2/93 20101

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WHER SAMPLES (1/m) To calculate sample quantitation timi (CADL * Dilution fact

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SOIL SAMPLES (US/Kg)

- 6-3-93

Sampling Date(s): 6-2-93

20101

Case f:

Site Name: 68th Street Dump

To calculate sample quantitation limits: (CROL * Dilution factor / ((100 - Xmoisture)/100)

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To calculate sample quantitation timits

(CROL * Dilution factor / ((100 · Japisture)/100

Site Name: 68th Street Dump

Sampling Dete(s): 6-2-93 20101

Cose d:

6-3-93

SOIL SAMPLES (mg/Kg)

SEE MARATIVE FOR CODE DEFINITION 21-035 CK1129 = 2 CKW26 ×, 1.0/2.0 01-035 CKW27 ~ 6-035 CKW26 =, 2 CKIES 2.035 0.0 7 CKILZS 25.6 = \$ 3 FIELD DUP. OF \$69-5 CKNZZ CKM30 3 3 3 CKILZI \$60.4 = 2 3 3 CKILZO \$-635 7 1804 - Contract Required Quantitetien Limit X Heleture Location Dilution factor Semple Ho. 4 - Chierophenyi - phenyi ether texachi procyclopentadians 2,4,6-Irichlerephenel -Chlere-3-methylpher .4.5- Irichlerophenel · Hethylnaphthalene Henechlorobut adlene 2-Chi or onepthelene 2,4-Dinitrateluane 2,4-Dinitratolume Dimethylphtholote 2-Hitroanii ine 2,4-Dinitrephenol Diethylphihalate 3-Hitramiline Actnephthylene 4-Hitromilline 4-Hitrophenel Dibensolura Acenephthene fluorene COMPAND 38 33.6 3 3 3 3.56 3 3 9 3 3 S. S. 8 336 2 3 200 3 3 2 25. 3 35

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- 6-3-93

Sampling Date(s): 6-2-93

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(m²/Kp)

To calculate sample quantitation limits: (CROL * Bilution factor / ((100 - Xmoisture)/100)

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<u>s</u>	Benze(b)fluoranthene		<u> </u>	Box	4		<u></u> _	<u> </u>	- -	i -	<u> </u> _	- -	<u> </u>	<u> </u>	-	-]	1
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330	Dibenz(e,h)enthrecene		'	3	_ 	3		<u>'</u>		<u> </u>		_		1		<u> </u>		7
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Page 22 of 36

Site Mame: 68th Street Dump

20101 Sampling Date(s): 6-2-93 - 6-3-93

Case #:

SOIL SAMPLES (ug/Kg)

Cost * Dilution factor / ((100 - Amoisture)/100)

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	Dilution factor	9.7	-:- -:-	9:1-		•			1.0		1.0	1.10		1.0
	X Moisture	53	2	21		14	6		12	7	•	3		15
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	2-Chloropenel				 -	<u> </u>	 -	<u> </u> _ 		<u> </u>		<u> </u> _	<u> </u>	
	1.3-Dicklorobenzene				- -	-	 	<u> </u> _ 		_ -		 -	 	
330	1,4-Dichlorobenzene			_		<u> </u>	 -	<u> </u> _ 		<u> </u>		 	<u> </u>	
32	1.2-Dichlorobenzene				_	_		 		- -			 -	
	2-Hethylphenol							_		_			<u> </u>	
	2,2'-oxybis(1-chloropropene)				 -	73		<u>3</u>		3			<u> </u> _!	
	_	710	1											
	-propylemine							_				_		
330	Hexachloroethane											_		
32	Mitrobenzene	-												
330	leophorone			<u> </u>										
	2-Witrophenol						2.2	_	# ·					
	2.4-Dimethylphenol				-			-						
	bis(2-Chloroethoxy)methene													
					_									
	1,2,4-Trichlorobenzene				-									
330	Machthalene						_					_		
35	4-Chloroanitine											_		
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CROL . Contra	* Contract Required Quantitation Libit	<u>.</u>								<u> </u>		EE MARATIV	E FOR C	SEE MARATIVE FOR CODE DEFINITIONS

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SOIL SAMPLES (ug/Kg)

- 6-3-93

Sampling Date(s): 6-2-93

20101

Case #:

Site Name: 68th Street Dump

To calculate sample quantitation limits:

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CROL " Dilution factor / ((100 - Impisture)		
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	Sample No.	CXV30	רבאשו	CXXX32	ccvs3	CONST	CICASS	CKVSS	CKV39	cruko
	Dilution fector	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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1 81	116.1 Herechlerchuteffens		1 1 1	-						
2,5	4-Chlore-3-methylphenel									
- 255	2-Methylmachthalone	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								
330	Benecht precyclepent adjena							3	3	3
	2,4,6-Trichlorophonel									
- §	2,4,5-Irichterotheret									
330	2-Chloromothelene							was at the first		
900	2-Hitroeniline									
2.00	Dimerhylchtholote		***							
25	Acenephthylene			and the second of						
330	2,6-Dinitrotolume	The state of the s	,			* * * * * * * * * * * * * * * * * * * *		· .		
906	3-Hitroeniline							2 2 3 4 4 4	*	1
- 25 - 25	Aconachthene									
-	2.4-Dinitrophenol							3	3	73
90	4-Nitrophenol									100
	Dibenzofuren									
330	2,4-Binitrotoluene									
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3	- Contract Demired Description Links							SEE	SEE MARRATIVE FOR CODE DEFINITIONS	DE DEFINITIONS
		•	<i>3</i>							revised 07/90

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Site Name: 68th Street Dump

Case #: 20101 Sampling Date

Sampling Date(s): 6-2-93 - 6-3-93

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limits: (CAOL * Dilution factor / ((100 - Amoisture)/100);

	Sample No.	cuso		CKASI		CKWIZ		[cxu33		CKW34		CKU35	-	CKAGS		CKU39	-	בעוקט		ı -
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330	N-Mitrosodiphenylasine		Ī		-		-	**********					-	*******	****	***************************************	÷	1932229		·
330	4-Bromophenyl-phenylether				<u> </u>		<u> </u> _		<u> </u>				- -				 		٦-	
330	Hexachlorobenzene				!_		{_		<u> </u>				 		<u> </u>	<u> </u>	- 		 -	¬-
3	Pentachlorophenol				<u> </u>		!-		<u> </u>			<u> </u>	¦-		<u> </u>		 -		١-	- ; -
1380	Phenanthrena	972	_	951	3	38.2	-		<u> </u>				-	9	_ إ		 		-	
1330	Anthracene					<u>s</u>	-	_	_		<u> </u>		 -		<u> </u>		 		<u> </u>	7-
130	Carbazole					3	<u> </u>	-	[_				 -		<u> </u>		†-		<u> </u>	7-
- yso	01-n-butylphthelete			190	•		-	2158	-	3]_	<u> </u>	\ -	1000	و إ	95		997	•	7-
	Fluoranthene	720		350	_		-	32	3	 !	Ī		¦-	91.7	-		<u> </u>		<u> </u> 	
-1.0st_	Pyrene		٦	170	3	746		 -					<u> </u>	32	-		 		 	
	Butylbenzylphthalate											- -	 	126	3		 		<u> </u>	- -
-330_	3,3'-Dichtorobenzidine		3		3		3						 		3		 3		<u> </u> 3	7 –
1.055	Denzo(a)anthracene	336	_	952	_	916							-	3	3		 	:	<u>-</u>	7 -
380_	Chrysene	3	_	200	_	992							 				¦ 		<u> </u>	7 –
-1-087-	bis(2-Ethythexyl)phthalate	922	_	310	_	_	=			071	<u> </u>	140	_ _	39	<u> </u> _	9061	 -	150	=	~ ~
-386-	Di-n-octyththelete												-				 		<u> </u> 	7 ~
-1-occ-1	Benzo(b)fluoranthene	2 2		3	<u> </u>	280	_	520	_					370	_	7	_		<u> </u>	-
	Denzo(k) fluoranthens												¦-		_		 -		<u> </u> _	7
	Benzo(a)pyrene					500	=						-				-		<u> </u>	ī —
1.330	Indeno(1,2,3-cd)pyrane		Ī			150	=												_	i –
1.330_1	0 ibenz(a,h)authracene				_								-						-	i
330	Benzo(g,h, i)perytene						_						_						_	ī —
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CAQL = C	= Contract Required Quantitation Limit	•				* = Resul	::	Results taken from dilution	3	£			İ				İ			î
								•									-	revised 07/90	05/20	_

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DAIA SLIPHAF "ORM: B. H. A.

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SOIL SAMPLES

(6)/(a)

- 6-3-93

20101 | Sampling Bate(s): 6-2-93

Coss #:

Site Name: 60th Street Pump

To calculate sample quantitation timi

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336	ble(2-Chieresthyl)ether							<u> </u>				-		<u> </u>		ſ		, -
330	2-thlorophenol						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											7
336	1,3-Dichieratensens							- 									1.	-
330	1,4-Dichlerabenzene							-						_				, -
336	1,2-Dichlorabensone									-		-						-
336	2-Hethylphenol				* 11 F							-		<u> </u>				-
3.25	2,2'-oxybis(1-chieropropene)			7			1 7 1	_				-		_				, +
336	4-Rethylphenel											! 						7 -
	M-Mitrose-di-m-prepriestre	¥1		_								-	H	-	,	<u> </u>		-
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28	Witrobenzene	and the second							*			-				ă.		,
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330	2-Hitrachienel mass	and the second of the second			4 4 4		Comment of the				4.5.4.	_						; -
530	2.4-Dimethytphenol	***	1 1 2 2 2															; -
330	biv(2-thieroethony)methane	. 4				-		_										-
330	2,4-Dichlorophonel					_	,	<u> </u>										-
330	1,2,4-Irichlerebenzene		1 2 2 2						22.2									-
330		r 0021		7	* ************************************			_			***************************************	-		-				_
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3 Ş - wye

To calculate sapple quantitation to

(CROL * Difution factor / ((100 - Impisture).

Site Name: 68th Street Dump

Sampling Date(s): 6-2-93 20101

Cose #:

6-3-93

(mg/Kg)

SOIL SAMPLES

SEE MARRATTYE FOR CODE DEFINE 3 3 FIELD DUP OF SOIL-13 CKM3 CKM31 9. **3** 3 3 5.0/25.0 tecetion |_solt-11 9821 3 Sample No. |_CKIM1. 2 X Holoture [_19_ Chal - Contract Required Quantitation Liait Dilution factor 6.4-Dinitro-2-methylphonel 6-Chiorophanyi-phanyiether Jenechl orecyclopentediene 6-Chlore-3-methylphenol 2,4,6-1richterephenel 2,4,5-Trichlerephone kenecht or obut adi ene 2-Hethytnaphthelene 2-Chioronapthelene 2,6-Dinitratelum 2,4-Dinitrotelume Disethylphthelete 2,4-binitrophenel 4-Hitronaline__ Diethylphthelete Acemaphthene 2-Mitroaniline 3-Hitramitine Acenaphthylene 4-Hitrophanel Dibenseluren fluorene COMPONE 3 3 3 3, 32 32 3 3, 3 3 3 3 32 3 3 3 3 3 3 37 3 3

AR000170

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DAIA SUPPARY FURM: B M A

10 12 Sue

SOIL SAMPLES (US/Ke)

. 6-3-93

Sampling Date(s): 6-2-93

20101

Cose #:

Site Name: odth Street Dump

To calculate sample quantitation lim (CROL * Dilution factor / ((100 - Empisture)/

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28.	4-Bromothenyl-phenylether				<u>!</u> -		<u> </u>		<u> </u>		<u> </u>		<u> </u>] -		<u> </u>	
330	Hexachi arabanzana				-		 		_				-		<u> </u>			
909	Pentachlorophenol				_			,							 -			
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336	Benzo(b) fluoranthone	-00002	11 520		-				-									
330	Benze(k) fluoranthene		3		3													
330	Benzo(a)pyrana	6900		170														
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330	Benzo(g.h.1)perytène	3900	_												2			
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CBOI - Cont	- Contract Bemiltod Suntlitation (lais	-	•	a Results	1	a from dil	distal										ļ ,	

Site Name: 68th Street Dump

Cose #: 20101 Sampling Date(s): 6-3-93

SOG#CKW36

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation time (CROL * Dilution factor / ((100 - Manieture)/)

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Paint Pain	Phanel Ph							'
Photo	Phonoi bloc2-chlorouthy)sether 1,2-sichlorouthy)sether 1,2-sichlorouthy)sether 1,2-sichlorouthy)sether 2,2-sichlorouthy)sether 2,2-sichlorouthon 1,2-sichlorouthon 2,2-sichlorouthon 1,2-sichlorouthon # # # # # # # # # # # # # # # # #	· · ·		— — ·				
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- Contract Besuired Guestitation Lieit								SEE MARANTINE FOR

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19e (of 36

Site Name: 66th Street Pump

Case #: 20101 Sampling Date(a): 6-3-93 SDGFCKW36

SOIL SAMPLES (UB/Kg)

To celculate sample quantitation limi (CROL * Dilution factor / ((100 - Xmolsture)/)

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	336	Diethylphthelate			a care	-							-			 	
	336	4-Chlerophenyi-phenylother	_									_	-	- 	 -	-	
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× 3 3 Page.

. ite Name: 68th Street Dump

20101 Sampling Date(s): 6-3-93 SOCACKW36 35e #:

SOIL SAMPLES

(ug/Kg)

lo calculate sample quantifation limits: (CROL * billution factor / (Clo0 - Amaisture)/100)

	_	CKMIS		5	CKNZ	3		9	cxu37		CKW2		CKN60		CKIM63	-	CMIXO	-
	Dilution factor	9	=		1.0	/2.0	-				2		 - -			<u> </u>]
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3	4-Bromophenyl-phenylether		<u> </u> _	 	<u> </u>	 	<u> </u>	-	<u> </u> -	- 	<u> </u> _	-		<u> </u>		- - - -		
330	Hexachi orobanzene		 - 	<u> </u>	_	 	<u> </u>	 	<u> </u>	<u> </u>	 -	<u> </u>	<u> </u> _	<u> </u> -		 -]	1
9	Pentachlorophenol		 - 	- 	 -	 	 -	<u> </u>	<u> </u> _	<u> </u>	<u> </u> _	<u> </u> 		<u> </u> -		<u> </u> -		1
336	Phenanthrone	650	679		2	<u> </u>	 -	-	3	 	1686	<u> </u>	270	<u> </u>		<u> </u>	9,5	
35	Anthracene						_	-	 -	 	 -	<u>'</u>	 	<u>'</u> 		<u> </u>]
- 935	Carbazole			_	 -	-	-	- 	 -	<u> </u>		<u> </u> 		<u> </u> -		<u> </u>		7
- as.	Pi-n-butyiphthelete	2000	1000	0	160	9	92.	-	2002	<u> </u>	 -	 	93,9] 3		- - - -	1,00	
- Par	fluoranthene	1400	3		95.	3			576	<u> </u>	3,00	<u> </u>	250	<u>:</u> _	-	<u> </u>	0071	-
35	Pyrene	1000	2		170	=	_	3	1 450	_	2000	3	3,	=		<u> </u>	108	<u> </u>
- P S	- Butylbenzylphthelete		35	-	_				3	_	! -	_	 -	 		 -		
- Pag	5,3'-Dichlarobanzidine					-		<u> </u>	 	<u>-</u>		<u> </u>		<u> </u>		¦-		
3,	Benze(a)anthrecens	35	3	-		-			150	-	23.0	<u> </u>	310	<u> </u>		_	720	Ī -
93.	Chrysone	5	2						35		 	 - 	8	! 		<u> </u>	98	
- PR.	blo(2-Ethythenyt)phthalate	_	37		4100			3				_	28	 -		<u> </u> _	1800	
- M.	bi-n-octylphthelate		-	-	-	-				3		3	_	_		 -		_
- Par	Benzo(b) fluorenthene	1.1486	± 1 8 5 1		호 기	<u>=</u> 	2		643	-	3000	<u>-</u>	992	 	2000	3	2300	
	Denzo(k) fluoranthene		_	 	_					3		3			-	<u> </u>		<u> </u>
<u> </u>	benze(a)pyrene	939	<u>\$</u>							_			350	-		-	930	· ' '
1.8%	Indeno(1,2,3-cd)pyrene	3	1 S	<u>=</u>		-		_					992	3			92.	<u> </u>
agr	Olbenz(a,h)enthrecene			_	_					,	_		 	 -		<u> </u>		<u> </u>
1-82,	Denzo(g,h, l)perylene	1.410	3	3				_		3	_	3	410	_			920	
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																_	revised 07/20	3

SUCA EXIMA						٠		•		Page 31	of \$c
Site Hear:	6918 SIREET DUMP			3 ر	MATER SAMPLES					J	
Case <i>B</i> :	20161 Sempling Detetal: 6/02/93	•	6/03/93		(7 4 5)	; ;			So cetculat	To calculate sample quantitation limit (CBOL * Dilution facts	entitation limit • Dilution facts
· —	Sample No.	Crows	Crows	- Crivés	CKW7	Crows	-	_cmv49	CKNSO	CKV51	CKN22
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1.0.05	Reptechier Eperide	The second				13	3	3	3	רח	
18.0	Endoard fen 1		1	M		m	3,	3	3	7	
101.0	Dieldrin	3	3	3		[m]	3		5		
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	*Aroctor-1016	3,	3			3	3	L	3	3	
2.0	*Aroclor-1221	A				IM.	3	LW	1	3	
1.0	*Arector-1232	(m)		· ·		m	m	[m]	T	3	
0.0	*Arecler-1242	73		ž		m	73	100	# I	3	
1.0	*Aroctor-1248	m				Į.	- F	[m]	T T	în l	
1.0.1	*Areclor-1254	3					3	79	m	100	
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CROL . Cert	CROL - Centract Required Quentitation Limit			"Action Level Paints	l faiote	,			# 33S	SEE MARRATIVE FOR CODE DEFINITION	DE DEFINITIO
											revised 07

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LAIER SAUPLES

Site Name: 661H SIREET DUMP

(1/an)

To calculate sample quantitation timit.

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(CRDL * Dilution facto. SEE MARRATIVE FOR CODE DEFINITION revised 67, CKIS9 - 3 3 FIELD BLAME. SAMPLE IS A CK167 PLK-1 FIELD DUP. OF SAMPLE 15 A CKGS 12-33 Action Level Salate CKIMIS <u>•</u> 3 CKGSS 7.3 -, -, 3 3 CKIES = 6-3-93 ---<u>-</u>-3 3 2 Sampling Date(s): 6-2-93 <u>-</u> . CACL - Contract Asquired Quantitation Liait Location Dilution factor Sample He. (L)nders) indocation Sulfate **Suppose the Epoxide** Endrin Aldehyde "alpha-Chlordone *game-Chlordene Mathemychier _ Endrin Katerie Eindoord fon 11 *Arecler-1240 *Arecter-1232 *Arecter-1242 Arector-1016 *Arecler-1248 *Arecler-1254 Areclor-1221 Endoevel fee *Heptechler 100-7" *Ioxaphena del to-BMC alpha-bac Dieldrie beta-BMC *fndrin 900-7.7 4,4.-pae COMPOSIND 20101 5.6 -Case #: 6.83 8.6 3 3. 2 3.0 3.0 3 3 6.65 3 9.6 6.8 0.05 ... 0.65 .es 8.6 3.0 3 3. = 2.9 = 3

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^RIGINA (Reg)

revised 07/

(ug/Kg) - 6-3-93 Sampling Dete(s): 6-2-93 treet Punp

20101

Case #:

Site Home: 60th

(Chat * Bilution fector / ((100 - Xmoisture)/19

To calculate sample quantitation timit

SEE MARRATIVE FOR CODE DEFINITION SED-12 CK1/29 2 CKW28 569-11 <u>=</u> × **1.29** 3.2 01-035 CKN27. 2 CITA26 SEB-9 2 2 CKIE = 2 * 2 CKNZ3 9-035 = \$ 3 3 FIELD DUP. OF SAPPLE IS A CKNS \$-635 CKN30 \$.. = CKV21 \$E0-4 2 CKNSO 2 2 * huntitetien tielt Dilution factor X Poleture Location Somple No. ndoeul fan Bulfete ptechier Epenide ndrin Aldehyda Indoord fon 11 ndrin Keteme et Required a rector-1242 rector-1254 Arecter-1260 hethouychtor rector-1232 ndoquilles 1 Arector-1916 rector-1221 rector-1248 executere ptechier el te-BRC olphe-DHC ndrin | Mein-Pic 304-1 COMPONIO 7 2 = 2

SOIL SAMPLES (UQ/KQ)

- 6-3-93

Sampling Date(s): 6-2-93

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i Site Names 68th Street Dump

To calculate sample quantitation limit (CROL * Dilution factor / ((100 - Amoisture)/10

	Seaple Ho.	CKN30	[_cau31_	- CKN32	CKM33		CRES	3	CKN3S		1	CKN39	CKWO	3
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	Location	£1- 63 3	1-105	2-1105	5-1105		5-110s	3	5-1105	8-110s		6-1105	3	2011-105
*		Signification of	SAUPLE 15 A FIELD DUP. OF											l
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1.7.1	elphe-BWC							-	-		-		-	
1.7	beta-BKC							 -	<u> </u> _		 -		<u> </u> -	
1.7	delte-B#C					_		<u> </u>	<u> </u>		- -	-	-	
1.7	Some-Bit (tindeng)								<u> </u>		<u> </u>		_	
1.7	Heptachler												_	
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-1-	Hethonychlor							<u> </u>			_	_	H	
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1.5.	Ernir in Aldehyde						i	-	-		1	1	H	
	elpha-Chlardene		_	<u></u>		<u> </u>	7,	_	-	1.1		2	<u> </u>	
12.	. same-Chlordene			=		<u> </u>		<u> </u>	-	-5.8	-	× ×	-	1
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Site Name: 6	68th Street Dump				SOIL SAMPLES							Ĵ			•
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	pares-64C (Lindone)				1										
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3.3	100-77												-	-	7
	Netbonychlor					_	1				4		_		7
	Endrin Ketone						1	***	_		1		<u> </u>		٦
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33	Arector-1016	+					<u> </u>		<u> </u>		<u> </u> .	1	- -	- 	٦.
19	Arector-1221			,					<u> </u> -		:		<u> </u>		<u> </u>
33	Aroclor-1232								<u> </u>		-		<u> </u> -		7
- ×	Arector-1242								_		_	j	1	1	٦
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SOIL SAMPLES

(ug/Kg)

Sampling Date(s): 6-3-93

20101

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Case

Site Hame: 68th Street Dump

SDC# CKN36

To calculate sample quantitation limits: (CAGL " Dilution factor / ((100 - Masture)/100)

06/20 pasiasi SEE MARRATIVE FOR CODE DEFINITIONS <u> 3</u>' 501t-16 CKM62 2 3 3 1 3 3 5011-15 CKIM61 3 5 3 39 CKIMO 2 3 5011.12 3 CKW2 2 **5** 2 **5011.7** CKW37 5.7 • 8 2 7-1193 CERTS 2 -CKIEZS 8.69.6 = 3 3 2-035 CKUTO 2 3 3 3 3 2 3 CASL - Contract Required fountitation Liait X Noisture tocat lan biliation factor Semple No. passe-bill (Lindane) Septachler Eparlde Endoard fan Sulfete elghe-Chlerdene a-Chlerdene Endrin Ketone Endoeut (en 11 Arecler-1254 Arecter-1240 Arecler-1232 Arecler-1242 Arecler-1248 Helbeaychler Aracler-1016 Arecter-1221 Endoevel fen teptachier ALIO-THE elphe-bit Endrin _ beto-BMC Aldrin Dieldrin 1.4.-006 34:53 19---COMPONIE 5.3 7 7 7.5 3.3 7 7: -2 2 5, 3 2 1.5 7 3.3 = 2 1 3.3



CONFIDENTIAL DRAFT

VOLUME II

Phase I Expanded Site Inspection Photodocumentation for the 68th Street Dump Site (MD-174)

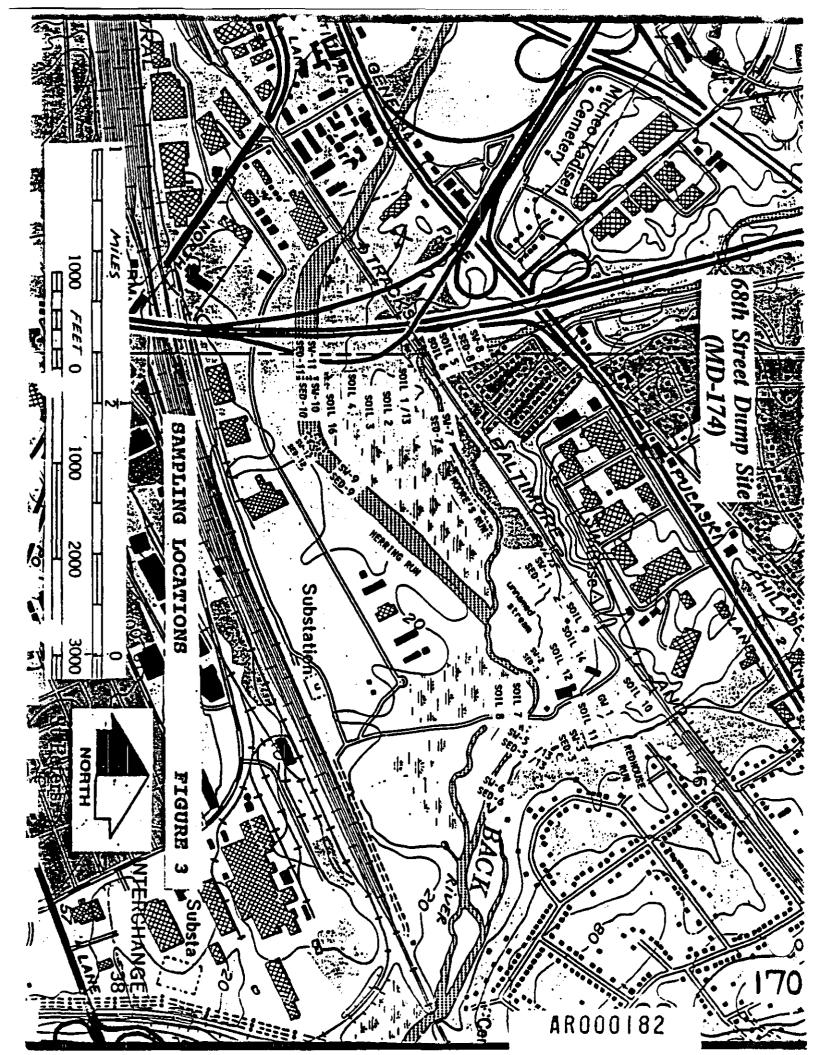
September, 1993

Maryland Department of the Environment Prepared By: Waste Management Administration Environmental Response and Restoration Program Site Assessment Division

2500 Broening Highway Baltimore, Maryland 21224

Prepared For: U.S. Environmental Protection Agency Region III

841 Chestnut Building Philadelphia, Pennsylvania 19107

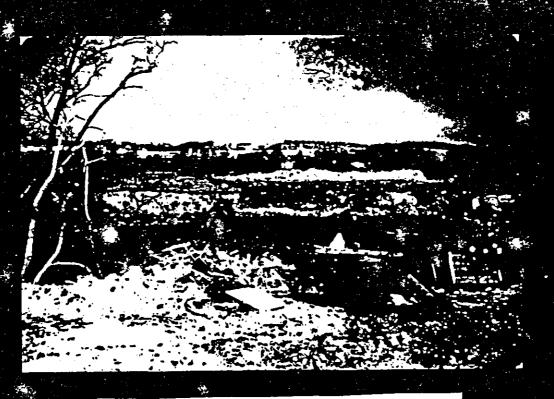


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Sample Number	OTR#	ITR#	Sample Location	Sample Type	Remarks Succession
SW-1 SED-1	CKW44 CKW18	MCJB44 MCJB18	Unnamed en-site stream - north	aqueous sediment	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
SED-S	CKW45 CKW19	MCJB45 MCJB19	Unnamed on-site	aqueous sediment	ti
SU-3 SED-3	CKV46 CKV20	MCJ846 MCJ820	Rechouse Run (on-site)	aqueous sediment	orange stälned leschate
\$V-4 \$ED-4	CKW21	MCJB47 MCJB21	Rechause Run NE of site	\$CUSOUS	beckground spike
\$4-5 SED-5	CKW48 CKW22	MCJB48 MCJB22	Herring Run East	equeous	* *
\$U-6 \$ED-6	CKW49 CKW23	MCJ849 MCJ823	Rechouse Run - Herring Run	acuscus	and Antonio and the second of
\$U-7 \$ED-7	CKV/50 CKV/24	MCJB50 MCJB24	Moore's Run - on-site	acusous	
SW-8 SED-8	CK451 CK425	MCJ851 MCJ825	Moore's Run Hil of site	aqueous	beckground-refuse 100yd. upstream
\$W-9 \$ED-9	CK1/26	MC1826	Herring Run West	aqueous	orange-red stained sediment
\$W-10 \$ED-10	CK153 CK127	MCJ853 MCJ827	Herring Run West - 2	aqueous	same es above-not as dark
\$2-11 \$ED-11	CXX:54 CXX:28	MCJ854 MCJ828	Herring Run - south of Col- gate Pay dump	edneons	background
SW-12 SED-12	CK155 CK129	MCJB55 MCJB29	Offsite drainage culvert	aqueous	collected south
SW-13 SED-13	CKN56 CKN30	MCJB30	SW-5 SED-5		duplicate
GW-1	CKN59	MCJB59	BFI Facility	squeous	hand pump %
BLK-1	CKV57	MCJB57	N/A		field blank
BLK-TP1	0058	N/A	N/A		trio blank

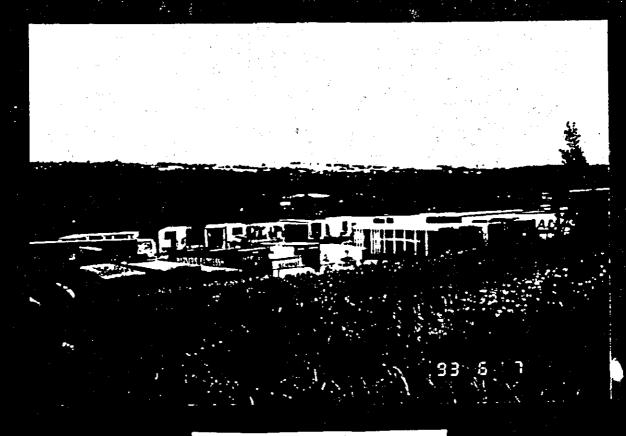


Sample Number	OTR#	1TR#	Sample Location	Remarks
Soil-1*	CK431	MCJE31	First landfill north (crane)	see map 3
Soil-2	CKN25	HC1825	First landfill central	see map 3
Soit-3*	CK1233	MCJB33	First landfill central	see map 3
Soil-4	CIG.(34	HCJE34	First landfill south central	
Soil-5*	CIG.(35	HCJ835	North of Site (western side)	background
\$a11-6*	CKN/36	ЖСЈЕЗ6	North of Site (western side)	background
Soil-7	CK137	MCJE37	Esstern landfill	
Soil-8	CXI/28	MCJ838	Esstern landfill	
Soil-9#	CK128	MC1839	Smell abandoned building (PCBs)	
Sail-10	CKI40	HCJ840	M.F. Winstead Company, Inc.	
Soil-11*	CK441	HCJB41	Browning-Ferris Industries (BFI) east	composite
Soil 12*	CKN42	MCJ842	BFI (west)	
Soit 13*	CXIA3	MCJ843	Soil 1	duplicate
Soil 14*	CICH60	HCJB60	Broken pipeline- behind building	
Sail 15*	CKN61	MCJB61	P.405, north radio towers	
Soil-16*	CKW62	MCJB62	Downhill Soil 4	composite to 2'

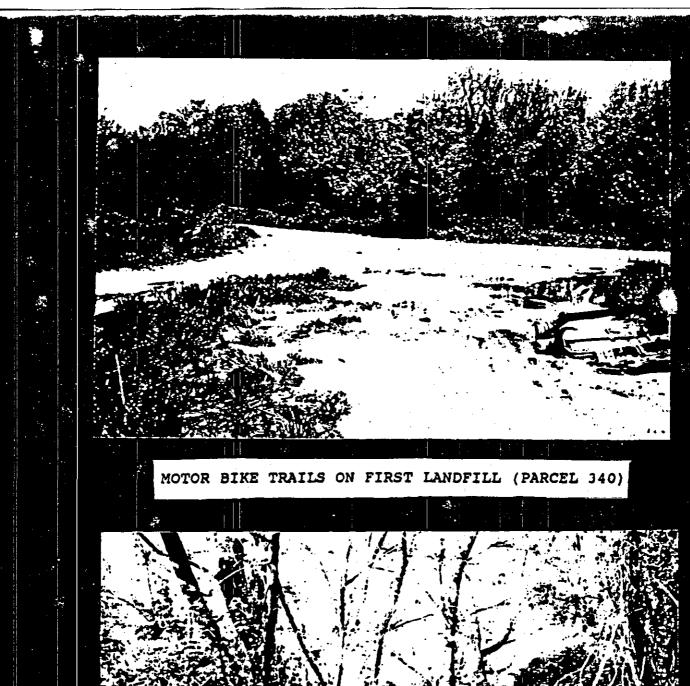
^{*}collected at a depth of less than two feet



HISTORICAL PHOTOGRAPH (1961) ROBB TYLER LANDFILL AND INCINERATOR



PANORAMIC VIEW OF SITE (BACKGROUND)





DEBRIS ON FIRST LANDFILL (PARCEL 340)



SOIL:1,13



SOIL 2

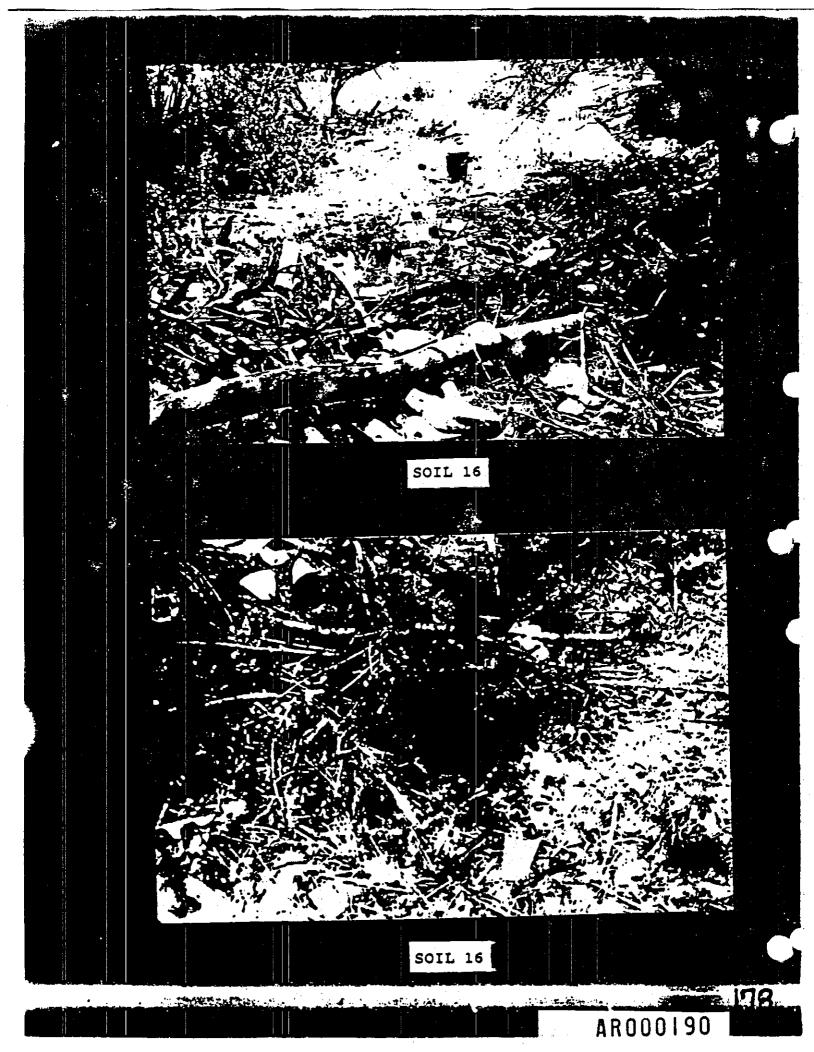
DRUMS UPHILL FROM SOIL 2 AR000188



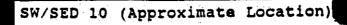
SOIL 4

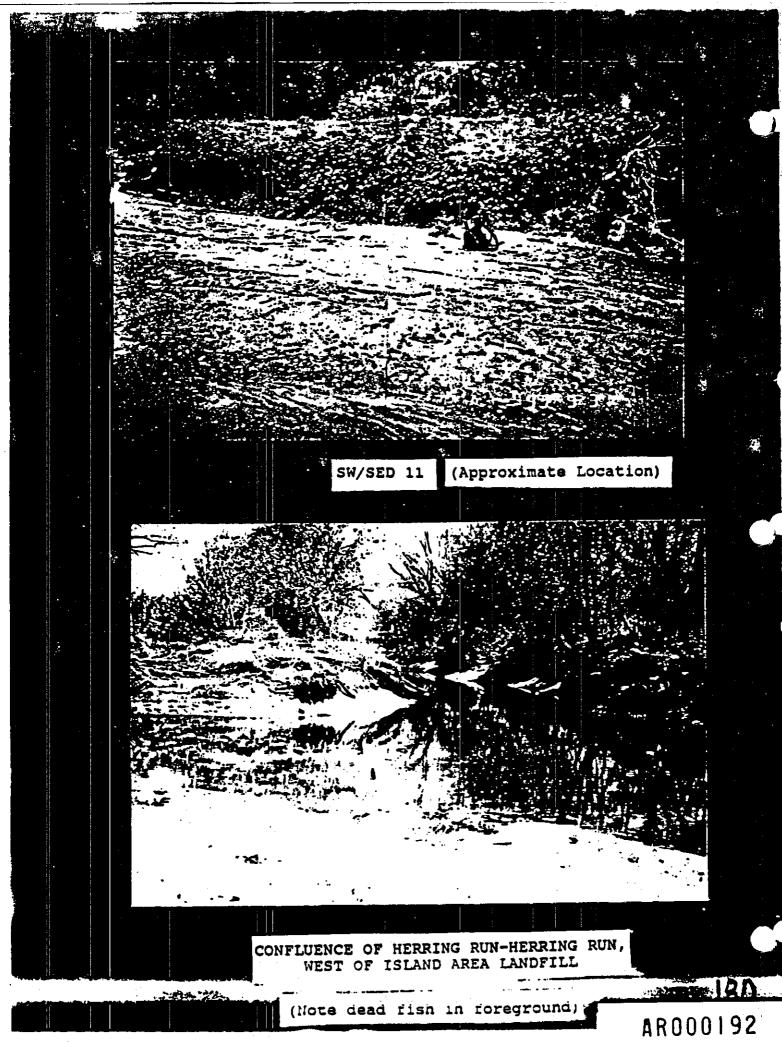


SOILS 5 & 6



SW/SED 9 (Approximate Location) (Note red-orange stained sediment)





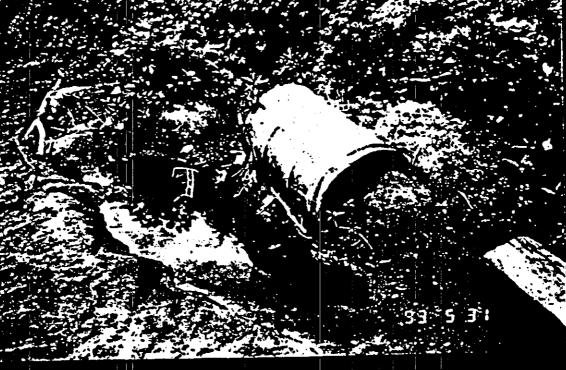


DRUM IN HERRING RUN, SOUTH OF FIRST LANDFILL



HERRING RUN (PARCEL 340)

COLGATE PAY DUMP (MD-176) ADJACENT TO SITE



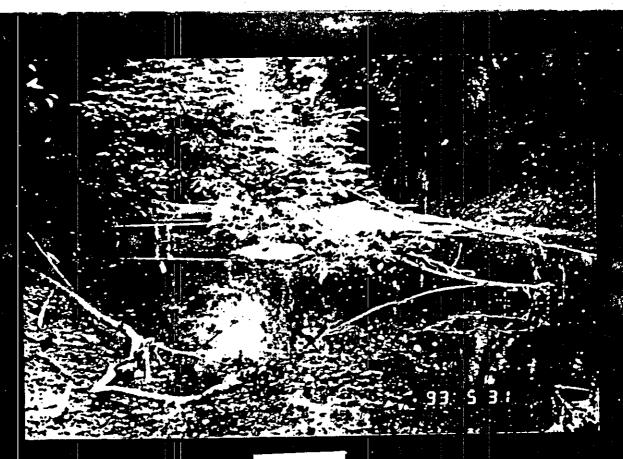
DRUM AT HERRING RUN SCUTHERN END FIRST LANDFILL



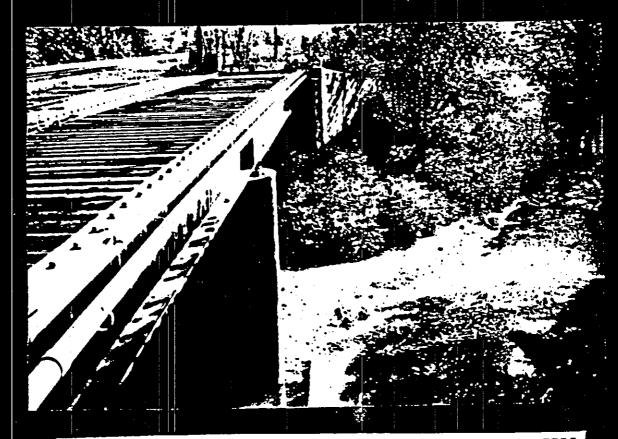
MOORE'S RUN (DOWNSTREAM)



SW/SED/7



SW/SED 8



MOORE'S RUN - NORTHERN PERIMETER OF ORIGINAL LANDFILL

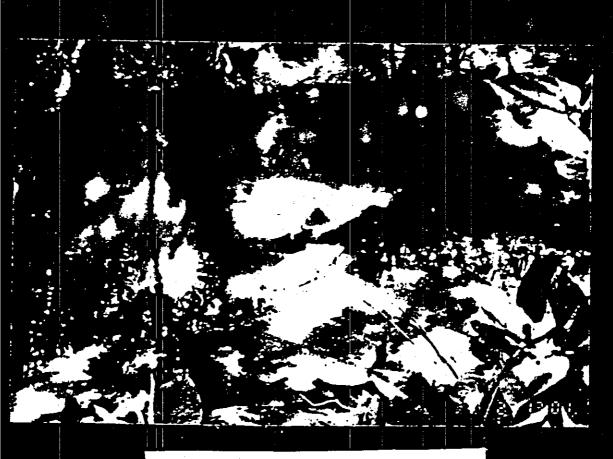


BUILDING LOCATED ACROSS FROM SOIL 15



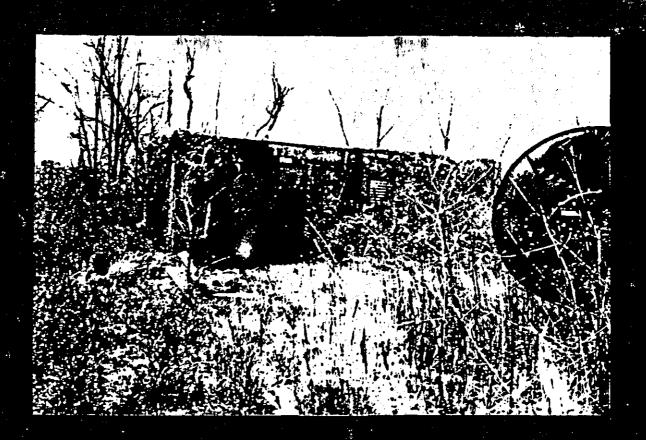
SOIL 15

ONSITE POND FROM WHICH UNNAMED STREAM DRAINS



DEAD FISH IN UNNAMED ONSITE STREAM

13 Oct.



210

ABANDONED TRANSMITTER STATION WITH PCB LABEL WARNING



ELECTRONIC PEFUSE AT ABANDONED

IR Targ



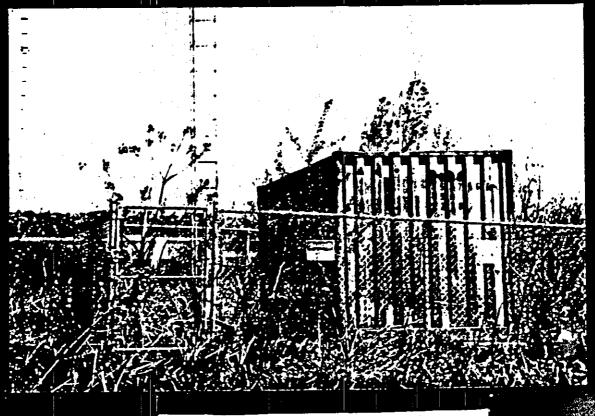


SW/SED 1



SW/SED 2

OPEN BURNING ON PARCEL 405



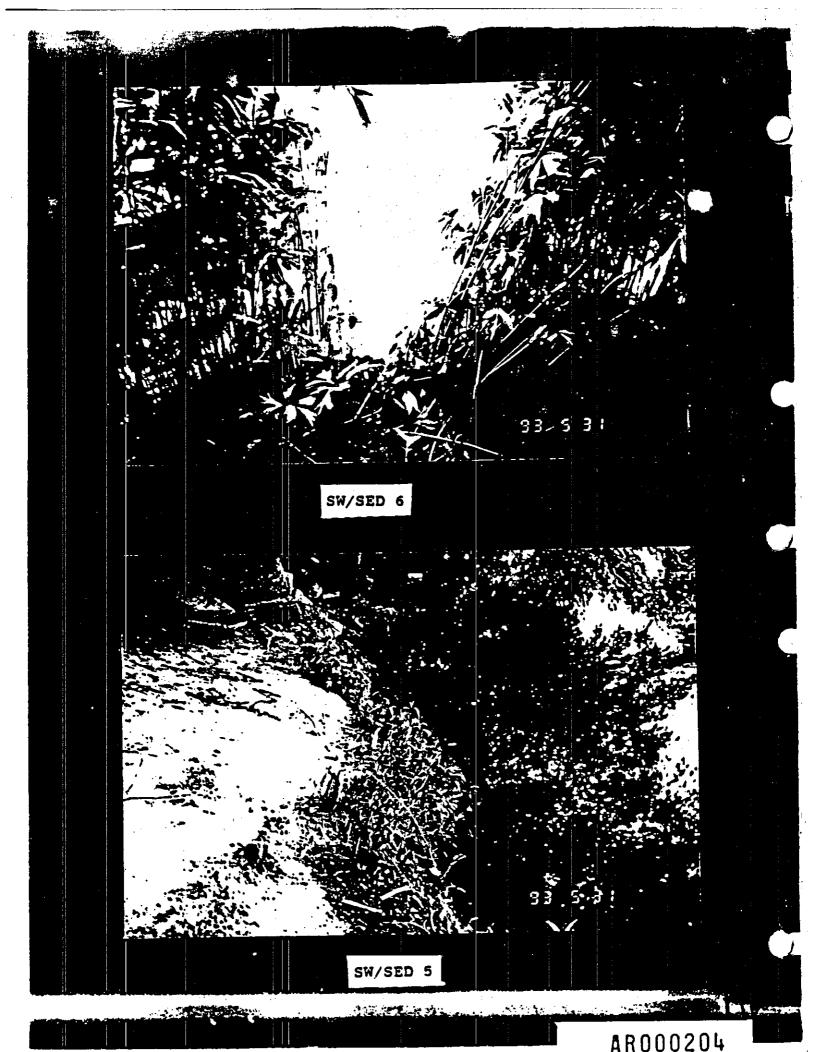
ONE OF THREE ONSITE RADIO TOWERS



SW/SED 4



SW/SED 3



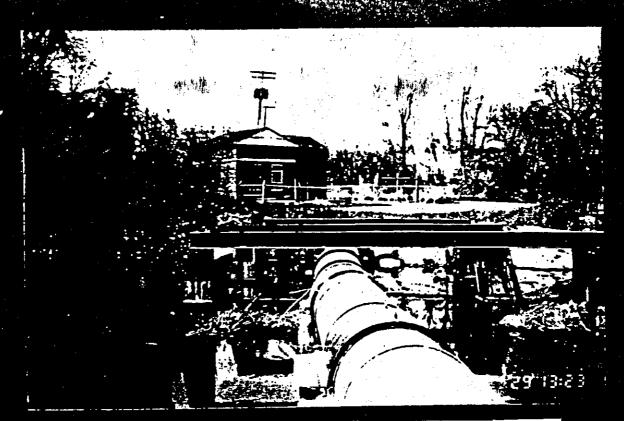


ISLAND AREA LANDFILL FACING WEST





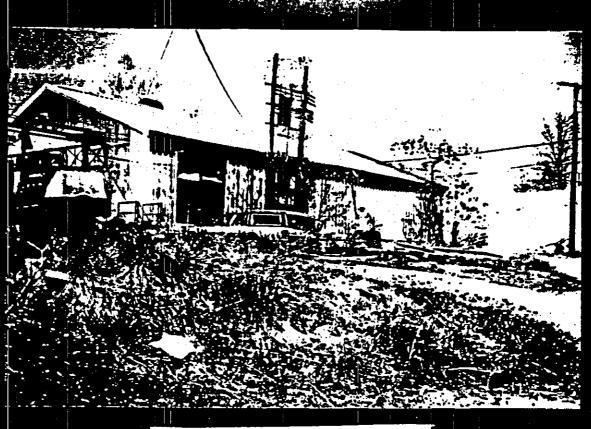
AR000206



BALTIMORE COUNTY PUMPING STATION, WITH PIPELINE LEADING TOWARD ISLAND AREA LANDFILL



SOIL 10



R.M. WINSTEAD SITE (MD-133), LOCATED ON MD-174 SITE



DRUM IN REDHOUSE RUN, NEXT TO

196



DRUM IN REDHOUSE RUN, NEXT TO PROPERTY LEASED BY BFI



SOIL 11



AR000210

PIGINAL

Phase I
Expanded Site Inspection
for the
68th Street Dump Site
(MD-174)
Volume III

September, 1993

Prepared By: Maryland Department of the Environment

Waste Management Administration

Environmental Response and Restoration Program

Site Assessment Division 2500 Broening Highway Baltimore, Maryland 21224

Prepared For: U.S. Environmental Protection Agency

Region III

841 Chestnut Building

Philadelphia, Pennsylvania 19107

ATTACHMENT III

700

	-			·	
Sample Number	OTR#	ITR#	Sample Location	Sample Type	Remarks
SW-1 SED-1	CKW44 CKW18	MCJ844 MCJ818	Unnamed on-site stream - north	aqueous sediment	
SW-2 SED-2	CKW45 CKW19	MCJ845 MCJ819	Unnamed on-site stream - south	squeous sediment	
SW-3 SED-3	CKW46 CKW20	MCJ846 MCJ820	Redhouse Run (on-site)	aqueous sediment	orange stained leachate
SV-4 SED-4	CKW47 CKW21	MCJB47 MCJB21	Rechouse Run NE of site	aqueous	background spike
SW-5 SED-5	CKW48 CKW22	MCJ848 MCJ822	Herring Run East	aqueous	
SW-6 SED-6	CKW49 CKW23	MCJ849 MCJ823	Redhouse Run - Herring Run	edneons	
SW-7 SED-7	CKW50 CKW24	MCJ850 MCJ824	Moore's Run - on-site	aqueous	
SW-8 SED-8	CKW51 CKW25	MCJB51 MCJB25	Moore's Run MW of site	aqueous	beckground-refuse 100yd. upstream
SH-9	CKW52 CKW26	MCJB52 MCJB26	Herring Run West	equeous	orange-red stained sediment
\$W-10 SED-10	CKW53 CKW27	MCJ853 MCJ827	Herring Run West - 2	aqueous	same as above-not as dark
SW-11 SED-11	CKW54 CKW28	ИСЈВ54 ИСЈВ28	Herring Run - south of Col- gate Pay dump	edneone	beckground
SW-12 SED-12	CKW55 CKW29	MCJB29	Offsite drainage culvert	edneone	callected south side Herring Run
SW-13 SED-13	CKW56	MC1820 MC1826	SV-5 SED-5		duplicate .
GW-1	CKW59	MCJB59	BFI Facility	aqueous	hand pump
BLK-1	CKW57	MCJB57	N/A	t artista del tra	ffeld blank
BLK-TP1	CXV58	N/A	N/A	of the control	trip blank

Sample Number	OTR#	ITR#	Sample Location	Remarks
Soil-1*	CKW31	нсј831	First Landfill north (crane)	see map 3
Soil-2	CKW32	MC1835	First landfill central	see map 3
Soil-3*	CKW33	MCJ833	First landfill central	see map 3
Soil-4	CKW34	MCJ834	First Landfill south central	
Soil-5*	CKW35	MCJB35	North of Site (western side).	background
Soil-6*	CKN36	MCJ836	North of Site (western side)	background
Soil-7	CKN37	MCJB37	Eastern landfill	
Soit-8	CKV38	MCJR38	Eastern landfill	
Soil-9*	CKU39	HC1839	Small abendoned building (PCBs)	
Soil-10	CKW40	MCJB40	M.f. Winstead Company, Inc.	
Soil-11*	CKW41	HCJ841	Browning-Ferris Industries (BFI) east	composite
Soft 12*	CKW42	MCJ842	BFI (west)	
Soil 13*	CK143	MCJ843	Soil 1	duplicate
Soil 14*	CKW60	MCJ860	Broken pipeline- behind building	ė.
Soil 15*	CKV61	MCJB61	P.405, north radio towers	
Soil-16*	CXV62	MCJB6Z	Downfill Soil 4	composite to 2'

^{*}collected at a depth of less than two feet

APPENDII A

RESULTS REPORTED BY LABORATORY

FORM Is

SDG MCJB18

INGRGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-02-0039

Lab Code: SKINER

Case No.: 20101 SAS No.:

SDG No.: MCJ818

Matrix (soil/water): SOIL

Lab Sample ID: 06046-018

Level (low/med): LCW

Data Received: 06/04/93

% Solids:

40.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	'Aluminum	9810			- F
7440-36-1	_Ancimony	8.1	U	N	; =
ブル4のー38ー コ	'≟rsenic	10.2	: :	N	਼ ਵ
1776-24-1	'Barium'	355	; ;	<u> </u>	; >
7440-41-	'Seryllium'	0.91	8	!	; P
7440-43-4		3.4	: :		P
7440-70-2	Calcium	18800			P
7140-47-3	:Chromium	191			ρ
7440-49-4	Cobalt	11.4	8		ρ ;
7440-50-7	Copper	189		•	P
7439-59-5		27100			ρ
7439-92-1	Lead	591		S	F
74.39-95-1	Magnesium	6720			F
	Manganese	367	i		12
7439-97-6		0.55	į		[CV]
7440-02-0		107	i	*	P
	Potassium!	1610	8:		i p
7782-49-2		1.5	Ū:	W	ie i
7440-22-4	•	3.2	8		i p
7440-23-5	•	406	8:		ie i
7440-28-0	• · -	0.56	- :		F
7440-62-2	, ,	63.4	- !		P
	Zinc	647	į		P
	Cyanide	- •	υİ		CA

Color Before: 8ROWN

Clarity Sefore:

FINE Texture:

Jolor After:

Clarity After:

Artifacts: YES

:comments:

ROOTS AND WOOD

ILM02.1

EPA SAMPLE NO.

MCJ819 (500-2)

Lab Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0039

Lab Code: SKINE?

Case No.: 20101

SAS No.:

SOG No.: MCJB18

Matrix (soil/water): SOIL

Lab Sample ID: 06046-025

Level (low/med): LOW

Date Received: 06/04/93

% Solids:

64.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	G J	M
7429-50-5	Aluminum	4600	<u> </u>		=
7440-36-0	Antimony	5.5	U	N	
7440-38-0	Arsenic	2.5	В	N	F
7440-34-3.	Barium	77.9	į, į		0
7440-41-7	Seryllium	0.31	8		=
7440-13-9	Cadmium	0.52	U		P
7440-70-2	Calcium	7230			9
7440-47-3	Chromium	~54.8°	į	5	P
7440-48-4	Cobalt	6.5	8		P
7440-50-8	Copper	42.7			P
7439-89-6	Iron	11300			9
7439-92-1	Lead	92.2			5
74.39-95-4	Magnesium	3830		**	ρ
7439-96-5	Manganese	215	. !	z I	P
7439-97-6	Mercury	0.21		* 100	CV
7440-02-0	Nickel	25.4	1	*	P
7440-09-7	Potassium	1000	B		P
7782-49-2	Selenium	0.99	U	o foet to sal	F
7440-22-4	Silver	1.2	8		P
7440-23-5	Sodium	104	8		P
7440-28-0	Thallium	0.36	U		F
7440-62-2	Vanadium	23.3	1	The second second	P
7440-66-6	;Zinc ;	138	. ;	70 70 1	P
	Cyanide	0.74	U		CA

Color Before: BROWN

BROWN

Comments:

ROOTS

INCRGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MOTROE CEN

Lao Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0039

MCJ825 SED-

Lab Code: SKINER

Case No.: 20101

5AS No.:

SDG No.: MCJ818

Matrix (soil/water): SOIL

Lab Sample ID: 06046-038

Level (low/med): LCW

Date Received: 06/04/93

% Solids:

80.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

		7			
CAS No.	Analyte	Concentration	c	q	M
7429-90-5	Aluminum	1020	-	!	
7440-35-0	Antimony	4.5	Ü	. N	i a i
7440-38-2		1.3	8	. N	-
7440-39-3	Barium	10.0	8	į	9 1
7440-41-7	3eryllium	0.43	8		i ja j
7440-43-5	Cadmium	0.41	U	į	i e
7440-70-2	Calcium	4010		į	P
7440-47-3	Chromium	7.2		ĺ	0
7440-48-4	Cobalt	4.3	8		i p
7440-50-6	Copper	6.7		ĺ	P
7439-39-5	Iron	7390			i e i
7439-92-1	Lead	43.4			i = 1
17439-95-4	Magnesium	1940			9
7439-96-5	Manganesa	114			
7439-97-6	Mercury	0.06	U		cvi
7440-02-0		5.7	8	*	P
7440-09-7	Potassium	74.7	8		P
7782-49-2		0.93	8	. +	F
7440-22-4		1.4	_ :		ρ
7440-23-5	Sodium	71.4.	8	-	i p
7440-28-0		0.29	Ū:		F
7440-62-2	•	10.4	8		٥
-	Zine	37.3			P
	Cyanida	0.60	υİ		CA

Color Before: BROWN

Clarity Before:

exture: COARSE

Color After:

BROWN

Clarity After:

Artifacts: YES

:comments:

STONES

206

CHOZ. I

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCJ837

Lab Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0639

Lab Code: SKINES

Case No.: 20101

SAS NO .:

SDG No .: MCJB18

Matrix (soil/water): SCIL

Lab Sample ID: 06046-045

Level (low/med):

Data Received: 06/04/93

% Solics:

80.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	င	Q	М
7429-90-5	Aluminum	7680	-		=
7440-55-0	Antimony	4.4	; U ;	N ,	2
7440-75-2	Arsenic	5.8	!	LSN -	#
7440-77-5	!Barium	249	•		
7440-41-7	deryllium	0.49	8		=
7440-43-4	Cadmium	1.8	•		P
7440-70-2	Calcium	8500	i (the second	; P
7440-47-3	Chromium	196		**************************************	P
ブムムのームターム	Cobalt	7.4	8	# 1 m	P
7440-30-5	Copper	209			
7439-89-5	Iron	20100			9
7439-92-1	Lead	109			F
7439-95-4	Magnesium	2130		_ *.	9
7457-96-5	Manganese	253	j		<u>۾</u>
7439-97-6	Mercury	1.2)		CV
7440-02-0	Nickel	40.0		* ₹ ₹ ~	P
7440-09-7	Potassium	673	8	-11 1 5 7 1	P.
7782-49-2	Selenium	2.3		+	F
7440-22-4	Silver	7.4			P
7440-23-5	Sodium	137	8;		P
7440-28-0	Thallium	0.29	U	₩	F
7440-62-2	Vanadium	36.2		$\frac{2}{2\pi} \left\{ \begin{array}{ccc} & \mathcal{L} & \mathcal{L} & \mathcal{L} \\ & \mathcal{L} & \mathcal{L} \end{array} \right\}$	P
7440-66-6	Zinc	519	i	1 - 4 Pro 1 - 1	2
<u> </u>	Cyanide	0.59	U	1. F. 1. C. 1.	CA
	i i e e e		ı i	_	1.5

Color Before: BROWN

Clarity Before

Color After:

Comments: STONES

INCRGANIC ANALYSIS DATA SHEET

EPA SAMPLE

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-02-0039

Lab Code: SKINER Casa No.: 20101

SAS No.:

SDG No.: MCJBIB

Matrix (soil/water): SQIL

Lab Sample ID: 06046-058

Level (low/med): LOW

Data Received: 06/04/93

% Solids:

80.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyta	Concentration	С	. •	M
7429-90-5	Aluminum	8520	! !		
:7440-36-0	¦≏ntimony	- 4.4	; U ;	N	; =
7440-38-2	Arsenic	6.5	: :	SN	F
7440-53-5	Sarium	269	1	l	¦ ≥
7440-41-7	3aryllium	0.48	; 8 ;	+	; 2
7440-43-9	Cadmium	2.0	! !		; p
7440-70-2	Calcium	5990	! !		; 0
7440-47-3	Chromium	199	1 1		; 0
7440-48-4	Cobalt	6.5	8;		2
7440-50-2	Copper	207			2
7437-89-6	:Iran	19900	:		; P
7437-92-1	Lead	107	!		F
7439-95-4	Magnesium	1350	:		2
7439-96-5	Manganese	226	1		
7439-97-6	Mercury	0.66	. !		CV
7440-02-0	Nickel	34.9	:	*	12
7440-09-7	Potassium	574	8		P
7782-49-2	Selenium	4.1	U	W	F
7440-22-4	Silver	7.9			P
7440-23-5	Sodium	87.8	8		P
7440-28-0	Thallium	0.30	U		F
7440-62-2	Vanadium	31.2	į		P
•	Zine	475	i		i p
	Cyanida	2.0	į	**	CA

Color Before: BROWN

Clarity Before:

MEDIUM

Color After:

BROWN

Clarity After:

Artifacts: YES

Comments:

STONES

INGRGANIC ANALYSIS DATA SHEET

MCJ339

Lab Name: SKINNER & SHEFMAN LABS. Contract: 68-02-0039

Lab Code: SKINEP

Casa No.: 20101 SAS No.:

SDG No.: MCJ818

Matrix (soil/water): SOIL

Lab Sample ID: 06046-065

Level (low/med):

LOW

Date Received: 06/04/93

% Solids:

81.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	0	M
7429-90-5	-luminum	1670	-	<u> </u>	声
7440-36-0	_antimony	9.5	8	N	ρ
7440-38-2		12.5	1.	S :1	7
2470-23-2:	Barium	73.2	!	len L	9
7440-41-7.	;3acyllium;	110.23	8	1	P
7440-45-7	Cadmium	10.1			9
7440-70-2	Calcium	2570			Ρ
アユチロームナーろ	Chromium	31.5			ρ
7440-43-4	Cobalt	3.9	В	:	ρ
7440-50-8	Copper	936			P
6-95-722	iron	8410			ρ
7439-92-1	Lead	2990			F
7439-95-4	Magnesium	819	8	,	P
7439-96-5	Manganese	114		, 4	ρ
7439-97-6 .		0.73			cv
7440-02-0	Nickel	27.5		. * .	ρ
7440-09-7	Potassium!	166	8		٥
7782-49-2	Selenium	0.80	U	W	F
7440-22-4	Silver	3.3	li		P
7440-23-5	Sodium	73.5	8		P
7440-25-0	Thallium	0.29	U	in the second	F
7440-62-2	Vanadium	10.3	, .		P
440-66-6	Zinc	196	•		ρ.
<u> </u>	Cyanide	0.60		· · · · ·	ÇA

Color Before: BROWN

Clarity Before: 5

Color After: BROWN

Clarity After: "

comments:

STONES, ROOTS

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCJB40 SOH_-10

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-02-0039

Lab Code: SKINER Case No.: 20101 SAS No.: SDG No.: MCJ818

Matrix (soil/water): SOIL

Lab Sample ID: 06046-075

Level (low/med): LOW

Date Received: 06/04/93

% Solids:

84.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	c	q	m
7429-90-5	Aluminum	8400	-		- -
7440-34-0	Antimony	4.1	U	N	; 3
7440-33-2	Arsanic	3.2	1 1	N	ļ. C
7440-37-3	Barium	40.5	8;	l I	; =
7440-41-7	!Seryllium	0.47	8;	!	, p
7440-45-9	Cadmium	0.39			P
7440-70-2	Calcium	182	8		; ≥
7440-47-3	Chromium	29.2			P
7440-48-4	Cobalt	a.7	8;		P
7440-50-8	Copper	19.3			P
7439-89-6	Iron	25800			P
7459-92-1	Lead	9.9			F
7439-95-4	Magnesium	2220			; <i>></i>
74.59-96-5	Manganese	183	1 1		2 .
7439-97-6	Marcury	0.06	U		CV
7440-02-0	Nickel	16.9	1	**	9
7440-09-7	Potassium	704	8		P
7782-49-2	Selenium	0.76	U	W	ļF
7440-22-4	Silver	1.1	8		P
7440-23-5	•	87.2	8		P
7440-28-0	Thallium	0.27	U		F
7440-62-2	Y	36.4	į		P
7440-66-6	Zinc	45.4	i		ρ
	Cyanida	0.57	υi		CA

Color Before: BROWN

· Clarity Before:

Color After:

BROWN

Clarity After:

	会り	ts	:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCJ841

Lab Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0039

Spri-11

Lab Code: SKINER

Casa No.: 20101

SAS No.:

SOG No.: MCJB18

Matrix (soil/water): SOIL

Lab Sample ID: 06046-085

Level (low/med):

LOW

Date Received: 06/04/93

% Solids:

79.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	2	M
7429-90-5	4luminum	14500	! – ,	l americani	=
7440-56-0	-ntimony	19.0	1	N	; P
7140-38-2	'arsenic	33.3	1	SN	; =
ブェエロースタース	'Barium	585	1	! '	; p
7440-41-7	(Beryllium)	0.55	B	[ļP
7440-43-9	Cadmium	6.3	1	}	; p
7440-70-2	Calcium	9470			; P
7440-47-3	Chromium	57.5			P
7440-48-4	Cobalt	13.6		1	; P
7440-50-8	Copper	467		} · · · · · · · · · · · · · · · · · · ·	; P
7439-89-6	tron	73900			P
7439-92-1	Lead	1530	1 1		¦F
7139-95-1	Magnesium	1130	8] * ****************************	; P
74.39-96-5	Manganese	501	1	* * * =	P
7439-97-6	Mercury	0.85	1	and the second	CV
7440-02-0	Nickel	224	1	D # 1 × 5 ¹⁰	P
7440-09-7	Potassium	483	8		P
7792-49-2	Selenium	0.82	U	•W ~:	¦F
7440-22-4	Silver	17.5		1.00	P
7440-23-5	Sodium	482	8	1 m	; P "
7440-28-0	Thallium	0.34	8		F
7440-62-2	Variadium	55.9			; p :
7440-66-6	Zinc :	1520			P
	Cyanide	0.75			CA

Color Before: BROWN

Clarity Before:

Color After:

BROWN

C1 - - 1 + 1 A 4 + - -

Artifacts: YES

Comments:

STONES, ROOTS

211

10M02.19

INCRGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MCJ342

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-02-0039

Lab Code: SKINER Case No.: 20101 545 No.: SDG No.: MCJ818

Matrix (soil/water): SOIL

Lab Sample ID: 06046-095

Level (low/med): LCW

Data Received: 06/04/93

% Solids:

33.s

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	G	M
7429-90-5	- Aluminum	12400	; - ;		
7440-33-0	intimony	4.2	IJ	, M	•
7440-38-0	:Arsanic	9.2	, ,	SN .	F
7440-39-5	: Barium	139		·	, 9
7440-41-7	Saryllium	1.7	İ		12
7440-43-9	Cadmium	3.2			
7440-70-2	Calcium	44700			P
7440-47-3	Chromium	49.7			P
7440-48-4	Cobalt	5.1	8		, e
7440-50-5	Copper	110			· p
7439-59-5	Iron	23300	i		P
7439-92-1	Lead	204		S	F
7439-95-4	(Magnesium)	12100	' i		P
	Manganese	750	i		P
7439-97-6		0.23	i		CV
7440-02-0		31.4	į	*	P
7440-09-7	Potassium	683	8		P
7782-49-2		0.76	υİ		
7440-22-4	Silver	2.2	a !		P
7440-23-5	Sodium	338	8		P
7440-29-0	Thallium	0.23	υį		F
7440-62-2		32.7			. P
	Zinc	364	i		P
	Cyanide	0.57	u!		CA

Color Before: BROWN

Clarity Before:

MEDIUM Texture:

Color After:

BROWN

Clarity After:

Artifacts: YES

Omments:

STONES

MCJ860

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-02-0039

Lab Code: SKINE?

Case No.: 20101 SAS No.:

SDG No.: MCJB18

Matrix (soil/water): SOIL

Lab Sample ID: 06046-10S

Level (low/med): LOW

Date Received: 06/04/93

* Solids:

56.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	1M
7429-90-5		3670	-	<u></u>	5
7440-36-0	Antimony	5.9	U	N	
7440-38-2	Arsenic	6.4		N	=
7440-39-3	:Barium	113		₩ .	2
7440-41-7	Seryllium	0.33	B		2
7440-43-9	Cadmium	0.60			[2]
7440-70-2	Calcium	6610		e to t	2
7440-47-3	Chromium	41.2	į	,	P
7440-48-4	Cobalt	5.9	8	.er	P
7440-50-8	Copper	50.7		* · · · .	0
7439-89-6	Iron	13000		* *	P
7439-92-1	Lead	151	i	1 1 1 1 1 1	
7439-95-4	Magnesium!	2530			9
7439-96-5	Manganese	355			į p
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	27.5		*	P
7440-09-7	Potassium	378	8		P
7782-49-2	Selenium	1.2	U		F
7440-22-4	Silver !	1.3	U	***	10
7440-23-5	Sodium	248	B	1 - 1 - 1	P
7440-28-0	Thallium	0.42	U	The second	F
7440-62-2	Vanadium	23.0	į	The second second	P
7440-66-6	Zine	197	. 1	1 1 1	P
·	Cyanide	0.88	u!		CA

Color Before: BROWN

Clarity Before:

Texture: | FINE

color After:

BROWN

Clarity After:

Artifacts: YES

:omments:

STONES; ROOTS

INCRGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCJ861

Lab Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0639

Lab Code: SKINER

Casa No.: 20101

SAS No.:

SDG No.: MCJ818

Matrix (soil/water): SOIL

Lab Sample ID: 06046-115

Level (low/med):

LOW

Data Received: 06/04/93

% Solids:

75.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	a	М
7429-90-5	Aluminum	5350	 		_ <u>_</u>
7440-36-0	Antimony	4.5	; U ;	N	; =
7440-38-2	arsenic	10.9		SN	F
7440-39-3	Barium	708	: :		; 2
7440-41-7	Seryllium	0.49	B	 	P
7440-43-9	Cadmium	10.8		1	10
7440-70-2	Calcium	3550		ı 	12
7440-47-3	Chromium	- 417			P
7440-48-4	Cobalt	4.8	8	•	Ρ
7440-50-8	Copper	798			2
7439-89-6	Iron	21500			P
7439-92-1	Lead	723	:		F
7439-95-4	Magnesium	915	8		ρ;
7439-96-5	Manganesa	81.2	1		P
7439-97-6	Mercury	14.6		•	CV
7440-02-0	Nickel	25.1	1	**	P
7440-09-7	Potassium!	378	8		; 0
7.782-49-2	Salanium	4.0	U	W	F
7440-22-4	Silver	47.3	į		P
7440-23-5	Sadium	74.9	8		IP :
7440-28-0	Thallium	0.29	U	,	F
7440-62-2	Vanadium	29.7	į		P
7440-66-6	Zinc	658	į		i p
	Cyanida	1.2	į		CA

Color Before: 8ROWN

Clarity Before:

FINE Texture:

Color After:

BROWN

Clarity After:

Artifacts: YES

Omments:

STONES, ROOTS

INCRGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0039

MCJ862 SOI___1_0

Lab Code: SKINER

Dase No.: 20101

SAS No.:

SDG No.: MCJ818

Matrix (soil/water): SCIL

Lab Sample ID: 06046-125

Level (low/med):

LCW

Date Fedeived: 06/04/93

% Solids:

43.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	G	M
74290-5	Aluminum	10500	! —'I		_ p
7440-76-0)∸ntimony	8.0	: U :	N	; P
7440-33-2	Arsenic	4.1	; 3 ;	N	15
7440-59-5	Barium	148	1 1		¦
7440-1:-7	Seryllium	0.63	:8;		; p
7440-15-7	Cadmium	0.95	8;		, P
7440-70-2	Calcium	13100	!		P
7440-47-3	Chromium	58.1			P
7440-48-1	Cobalt	10.8	8;		P
7440-50-3	Copper	86.5			; P
7439-99-6		18300			P
7439-92-1	Lead	236			; F
743=-=5-4	'Magnesium'	5220	: :		; =
74.59-36-5	Manganese	374	1		¦ Þ
7439-57-5	Mercury	0.73	1		CV
7440-02-0		41.6	i i	*	; P
7440-09-7	Potassium	1960	8;		6
7782-49-2	Selenium	1.5	U		F
7440-22-4	Silver	2.4	8;	•	P
7440-23-5	Sodium	192	8;	•	; P
7440-29-0	Thallium	0.53	U		¦ F
7440-62-2	Vanadium	39.5			; 6
7440-66-6	Zinc	360	Ì		; P
	Cyanide	1.1	U	•	CA

Color Before: BROWN

Clarity Before:

Jolor After:

BROWN

Clarity After:

:omments:

STONES, ROOTS

APPENDIX A
RESULTS REPORTED BY LABORATORY
FORM IS
SDG MCJB20

INCRGANIC ANALYSIS DATA SHEET

Lab Name: SKINNER & SHERMAN LABS. Contract: 68-02-003+

Lab Code: SKINER

Case No.: 20101

SAS No.:

SDG No.: MCJE20

Matrix (soil/water): SOIL

Lab Samola ID: 06012-015

Lavel (low/med):

LOW

- Date Received: 06/03/93

% Solias:

71.4

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	c	₂ , G ,	
-	Alüminüm	2550	! - !		
7 - 2 - 3 - 3 - 3	Ansimony	4.5	(U;	N	ج ,
7-40-58-1	darsenic .	2.6	: 2 :	N	; =
7448-39-3	:Sarium	34.1	18	. .	د :
アムムの一ムミーナ	Seryllium	2. 26	! E :		; P
	Cadmium	0.44	: U :	Also .	<u> </u>
7440-70-2	:Calcium :	7510		<u> </u>	
7-40-47-3	Chromium	13.5	1 7	*	; 🗩
1429-43-4	(Cobalt :	6.1	8		: 8
74-0-50-3	:Capper :	20.4	;		; =
439-39-5	liron ;	1 ବଟ ଉଦ		,	; ?
717944241	Lead	25.9	:) *
743949541	Magnesium	3200			. :P
7439-46-5	Manganese	147	1	*	;
7439-97-6	Mercury	. 0.07	U		cv
7440-02-0	Nickel	8.6	2;		! 🏲
7440-09-7	:Potassium:		€;		. P
7782-49-2	:Selenium ;	0.83	U	Ν	(F
7440-22-4	:Silver :	0.98	U!		(P
7440-23-5	:Sodium ;	129	3:		P
7440-28-0	:Thallium :	0.72	U¦		F
7440-62-2	Vanadium	17.5			. 🟲
7440-66-6	Zinc	121	1	7	i P
	Cyanide !	2.9	;		CA

Color Before: BROWN

Clarity Before:

Color After:

Comments: ROOTS

INURGANIC ANALYSIS DATA SHEET

MCJS21

Lab Name: SKINNER & SHERMAN LAZS.

Contract: 68-02-0034

Lab Code: SKINER

Case No.: 20101

SAS No.:

SDG No.: MCJE20

Matrix (soil/water): SOIL

Lab Sample ID: 06018-025

Level (low/med):

LCH

Date Received: 06/03/93

* Solids:

77.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

		A Section 1			· · · · · · · · · · · · · · · · · · ·
CAS No.	Analyte	: Concentration 	; c	G	Ħ
7.4.40-5		1.30	-	-	
7440-35-0	-actimony	4.5	:0:	M	. =
アムネターコピーニ	'arsenic :	2.1	:8;	N	. ! F
7440-39-3	:Earium ;		: 5 :		;
7440-41-7	Servilium	3.47	:8:		;
7440-43-4	:Cadmium :	0.43	;ù;		ļ ;
7440-70-1	(Cardium)	20200	: :	*	(2
7440-47-3	Chromium	19.0	: :		; 29
アムムタームニーム	Cobalt	4.5	8:		; >
7440-50-6	Copper	3.3	; ;		; 😕
ンドルカースカーダ	liron :	11200	: :		: P
7439-92-1	Lead :	30.0 S	:		; ;=
7439-95-6	:Magnesium:	8070 :	1		ļ (3
7439-95-5	Manganese	290	:	•	د ۱
7439-97-6	Mercury	0.06	U		CV
7443-02-0	Nickel	8.3	3:		; 🖻
7440-09-7	Potassium	272	8:	•	P
7732-49-2	3elenium	Ø. 77 :	U:	N	· F
7440-22-4	Silver :	0.97	U:		: P
7440-23-5	Sodium	199	8;		; ;
7440-28-0	:Thallium :	0.63	Ū;		15
7440-52-2	Vanadium	15.8	ŀ		! P
7449-66-6	Zine	60.9	-		! P
	Cyanide :	0.60	U!		CA
•		=	Ĩ,		

MUIGSM

Clarity After:

Comments:

STONES

INDREANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SKINNER & SHERMAN LABS.

Contract: 63-02-0033

Lab Code: SKINER Case No.: 20101 SAS No.: SDG No.: MCJB20

Matrix (soil/water): SOIL

Lab Sample ID: 06018-035

Level (low/med): LOW

Date Received: 06/03/93

≈ Solids:

50.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

			: :	_	
CAS NA	! Analyte.	Concentration	¦€;	G	* **
	Assiminum	୍ ଅନ୍ତର	_		
7440-75-0	: Antimony	5	::21	M	. 🤿
7440-33-2	:Arsenic	9.2	; ;	V.	٠ 🖚
7440-74-7	:Sarium	138	! !		د, ا
7440-41-7	Servilium	0.31	; 2 ;		: : =
7440-43-4	:Cadmium	0.67	: U:		. 3
7440-70-2	Caicium	4420	; ;	. *	~ ; P
7440-47-5	Chromium	63.4	; ;	₹ 7	; 7
7445-43-4	Cobsit	17.7	8:		! =
7443-30-8	10 open	73.8	: 1		ح ·
7459-89-6	Hiron	32200	j j		=
7439-92-	Lead	233	: 1) z
7430-25-4	:Magnesium	2420			(; ?
7439-96-5	Manganese	599	1 1	•	ح:
7439-97-6	Mercury	0.69		<u> </u>	CV
7440-02-0	Nickel	52.4	: :	* * *	· : P
7440-09-7	Potassium	1140	8:	Strategie in the	
7782-49-2	Selenium	4 ** 1.3	:8:	WN	``¦ ;
7440-22-4	Silver	1.5	8:	7	
7440-23-5	Sodium	208	:8:		- 12
7440-28-0	:Thallium	1.0	IJ;		•
7440-52-2	Vanadium	57.7			P
7440-55-5	:Zinc	290	-	1.17	P
	Cyanide	1 8 8 8 7 0.99	Ú:	(A	CA

Color Before: EROWN Color After: BROWN Comments: ROOTS

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MCJE23

Leo Neme: Skinner & Sherman Laes.

Contract: 68-02-0039

Lad Code: Skiner

C35# No.: 20101 3A3 No.:

SDG No.: MCJB22

Matrix (soil/water): SOIL

Lab Sample ID: 06018-048

Level (low/med):

LON

Date Received: 06/03/93

* Solids:

Concentration Units (ug/L or mg/kg dry weight): MB/kG

045 No.	Analyte	Concentration	c	, G	m
	:Aluminum	. - → •	;		
7449-76-9	Antimony	5.9	(U)	M	: 2
アムムローではって、	Arsenic	3.3	; ;	N	; ኖ
7440-39-3	:Bartum :	73.4	1 1		: 🟲
7440-41-7	Servilium	0.63	:3:		: 🖻
7449-45-9	:Cadmium :	0.56	141		
7448-70-2	(Calcium	4410	: :	*	; 🖰
7440-47-3	!Chromium !	35.4	: :	•	; P
7448-48-4	(Cobalt :	11.1	(8:		1.5
アムムのーラの	Copper	42.2	; ;		; ;⇒
7439-29-5	i[ron	17100	: :		; 7
7439-92-1	Lasd :	121	: :		; ,=
7439-95-4	:Magnesium:	5720			; ?
7439-96-5	Manganese	331	: :	A ,	; p
7439-97-6	Mercury	0.28	1 1		CV
7440-02-0	inickel	22.6	1. 1		; P
7440-09-7	Potassium	1200	5:		: P
7782-49-2	Selenium	1.0	U:	WN	: F
7440-22-4	!Silver ;	1.2	U		; P
7440-23-3	*,	1.36	5:		: P
7440-23-0	:Thailium :	0.83	Ü		; F
440-62-2	:Vanadium :	33.0			; ?
440-66-6	:Zine :	230	((2
	Cyanide	0.81	!u!	1	!CA

Color After:

Artifacts: YES

Comments:

ROOTS

AR000232

INURGANIC ANALYSIS DATA SHEET

MCJB24

Lab Name: SKINNER & SHERMAN LABS.

Contract: 63-02-0039: :

Lab Code: SKINER

Case No.: 20101

SAS No.:

SDG No.: MCJE20

Matrix (soil/water): SUIL

- Lab Sample ID: 06018-055

'Level (lou/med): .

Data Raceived: 06/03/93

% Solids:

73.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS (No. 5), 1	Analyte	Concentration	C		: m ,
	Aluminum	3150	·	-	- ; ≠
7440-36-0 !	Antimony	4.4	(U	N ₂	- ! >
7440-33-2	,	2.2	8	Ņ	; F
7640-39-3	Sarium :	25.8	12		! =
7440-41-7		0.15	: 8 :		2 ;
7440-45-4 :	Cadmium :	0,42	U	! `	- 1
7440-70-2 :	Calcium ;	6370	1 3	. #	12
7440-47-3 !	Chromium :	15.3	1		; =
7448-48-4 🗼	Cobalt :	7.7	: 3 ;		; =
7ルルターラの一き こ	Copper :	. 15.2	1	ļ.,	د :
7439-29-5	Iron :	10700	; ;		13
74.39-42-1 ₍₁₎	L+ad !	37.1	. ;		(F
7439-45-4	Magnesium:	3350	: :		12
	Manganase;	104	: :	#	; P
439-97-6	The state of the s	0.05	U:	11 11 11	; cv
'440-02-0 H	Nickel :	8.0	8	la.	. (P
7440-09-7 H	Potassium:		<u>ا ج :</u>		18
'782-49- <u>3</u> :	Selenium :	0.73	U;	WN .	्रह
440-22-4	Silver :	0.93	U		2
'440-23-5 l	3odium :	102	8:		12
440-25-0	Thallium	0.64	U;		i,F
440-62-2 11	/anadium	19.1			1,8
448-65-6	Zine :	60.4		.,	P
	yanide :	0.63	U:	***	· CA

Color Before: BROWN

BROWN

Artifacts: YES

mments:

TL MØ2.1

U.S. EPA - CLP

INCRGANIC ANALYSIS DATA SHEET

Lab Name: SKINNER & SHERMAN LASS. Contract: 63-02-0039

Lab Code: Skiner Case No.: 20101 SAS No.:

SDG No.: MCJ520

Matrix (soil/water): SOIL

Lab Sample ID: 06018-065

Lavel (lou/med):

LC2

Date Received: 06/03/93

% Solids:

70.6,

Concentration Units (ug/E or mg/kg dry weight): MG/kG

: ICAS No. A	nalyte	 Concentration	: : : : : : :	G	m
7429-40-3 AL	uminum	3630	: -:		
7448-36-3 An	timony		:11:	N	(2)
7440-38-2 .Ar	senic	1.7	:8:	N	(F)
7440-39-3 Sa	rium	47.0	8;		12
7449-41-7 (Se	rvllium	0.47	E:		P
7440-43-4 Ca	dmium	0.44	: u :		; P ;
7440-70-2 (03.	lcium	·	1	P.	10
: 7440-47-3 · Chi	comium	16.4	:	· #	P
7440-43 1001	sait !	4.4	3:		IP :
7440-30-1 (00)	7890	13.3	:		P
7439-89-5 : Inc	on :	•a:a :	1		IP (
7439-93-11 (64)	ed :	55.0	1		(F)
7439-95-4 :Mag	mesium:	. 3 390	- 1		iP :
7439-96-3 Mar	nganese:	126	. :	24	P
7439-97-6 Mer	cury ;	0.07	U:		CV
7440-02-0 IN16	kel :	9.5	≇:		;
7440-09-7 !Pot	assium:	1310	;		IP :
7782-49-2 (34)	enium :	0.87	U:	N'	:F :
7440-22-4 1511	ver	0.99	U:		P
7440-23-5 1300	: iium	96.3	3:		(P)
7440-23-0 The	illium :	0.71	u:		IF !
7440-62-3 Var	adium :	13.6	:		iP :
7440-66-6 'Zin	e :	77.3	;		18
Cys	nide :	0.66	U:	·	CAL
<u> </u>			_!.	• •	_

Color Before:	SROWN .	Clarity Before:	-	Texture: FINE
Color After:	BROWN	Clarity After:		Artifacts:
Comments:				

AR000234

INDRGANIC ANALYSIS DATA SHEET

EFA SAMPLE NO.

MCJB27

Lab Name: SKINNER & SHERMAN LASS.

Contract: 68-02-0039

Lab Code: SKINER

Case No.: 20101 SAS No.:

SOG No.: MCJE20

Matrix (soil/water): SOIL

_Lab Sample ID: 06018-075

Level (low/meg):

LCH

Date Received: 06/03/93

% Solids:

79.2

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

		1	: :		i	-
(CAS No.	: Analyte	Concentration	; C;	S	. **	1
7429-40-5	Aluminum	1010		•	- =	
7443-35-0	:Antimony	4.5	: u :	N		!
7440-38-2	Arsenic	1.5	8:	N	· 2	Í
7440-39-3	:Earium	17.5	: 2 :		. ; =	
7440-41-7	Servilium					. 1,
7440-43-9	Cadmium	0.41	111		; ; =	2/4/83
7440-70-2	-	2570			•	1 1 1 1 1 1 1
7440-47-3	Chromium	7.0		. R	.53	. 0
7440-48-4		1.2	•		- -	1
7440-50-3		3.1			; ·	1
7439-89-6			1	4 - 44 - 44 - 44 - 44 - 44 - 44 - 44 -		t I
74.39-92-1		4290	•		4	•
		13.6	•			
7439-96-5	Magnesium	1030				
	Manganesa	62.4	•			
7439-97-6 ¹	,	0.06			; ÇV	
7440-02-0	· · · · · · · · · · · · · · · · · · ·	1.3			(P	
	:Potassium:	250		tit gegen en		1
7782-49-2	• • • • • • •	0.77	_ :		17	
7440-22-4	,	0.95	U;			
7440-23-5	• •	78.0	E ;	of an in	; P	
	:Thallium :	0.63	U:		; F	i '
• .	Vanadium	1 apig.4.5 🕆	8:		: P	
7440-66-6	Zinc' ;	31.6	. 6.	San Francisco	P	
· · · · · · · · · · · · · · · · · · ·	Cyanide	0.52;	U:		CA	_
1				or or and	!!	_

Color Before: EROWN:

STONES

u.s. zpa – clp

INORGANIC ANALYSIS DATA SHEET

Lab Name: SKINNER & SHERMAN LABS.

Contract: 63-02-0039

Lab Code: SKINER

Case No.: 20101

SAS No.:

30G No.: MCJ820

Matrix (soil/water): SOIL

Lab 3amole ID: 06018-083

Level (low/med):

LOW

Date Received: 06/03/93

* Solids:

81.0

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS NO.	Analyte	Concentration	C:	1.	i M
7-29-90-5	:Aluminum	1230	-:	<i>•</i> ••	—; <u>; </u>
7440-36-0	iantimony	4.1 1	u:	N	; <i>;</i> =
7440-38-2	larsenic .	0.39	5;	* N	; <i>7</i> *
7440-39-3	: Sarium :	15.5 ;	8!		2
7440-41-7	:Seryllium:	0.40:	s :		
7440-43-9	Cadmium	0.39	uŧ		: P
7440-70-2		2920 ;	;	•	?
アムムロームアーろ	:Chromium :	24.0 :	;	*	; P
7440-43-4		2.4 1	8!		10
7440-50-3	Copper	9.3 (1		: 7
7439-89-6	Iron	4710 :	- ;		
7439-92-1	Lead	30.1 :	;	-	; ;=
7439-95-4	:Magnesium!	1340 ;			;₽
7439-96-5	Manganese	140 ;	;	₹	ج ;
7439-97-6	!Mercury !	0.061	Ų:		;cv
7440-02-0	:Nickel :	5.0	8 !		; ?
440-09-7	Potassium	349	5 ¦		; P
732-49-2	Selenium	0.77	U!	N	; F
440-22-4	Silver	0.86!	J:		; P
440-23-5	: Sodium :	60.9 (1	5:		; P
440-28-0	Thallium :	0.63!	j:		; F
440-52-2	Vanadium	5.9	3 :		; P
440-66-6	Zinc	34.6	. :		18
<u> </u>	Cyanide	0.5911	11		! CA

Clarity Before:

tifacts:

Comments:

m:

Lab Name: SKINNER & SHERMAN LABS.

Contract: 63-02-0039

Lab Code: SKINER

Case No.: 20101

SAS No.:

SDG No.: MCJE20

Matrix (soil/water): SOIL

Lab Sample ID: 06018-095

Level (low/med):

LOW

Date Received: 06/03/93

* Solids:

79.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS NO	' Analytt	Concentration	: 0	Ċ	i et
7424-40-5	និងមាល់ដែលក្នុង	11100	-		
744 3 -36-0	iantimony .	4.1	; U ;	N	.:-
7440-38-2	:Arsenic :	1.9	€:	N) (*
7440-34-3	:Sarium :	42.7	1, 1		ج ز
7440-41-7	Servilium	1.9	; ;		م ار
7440-43-9	:Cadmium :	0.41	:8:		12
7440-70-2	:Calcium :	70600	1 - 7		P
7440-47-3	່ວຽກຕອກium :	37.4		A	, ; ; •
7140-45-1	:Cobalt :	7.0	:e:		F
7440-30-3	Copper :	22.5	; ;		ح :
7439-89-6	Iron	5520	1		F
7439-92-1	iLead ;	55.2	! !	* .	7
7439-95-4	(Magnésium)	22500	} ; }	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 120
7439-96-5)	: Manganese !	1450	1	· •	.
7439-97-6	Mercury	0.06	6:	*	CV
7440-02-0	!Nickel :	18.2			! P
7440-09-7	Potassium	851	8:		P
7782-49-2	Selenium	0.50	Ü	WN	F
7440-22-4	:Silver :	0.83	U:		2
7440-23-3	Sodium	376	8		P
7440-22-0	:Thallium :	0.65			F
7440-62-2	Venadium	9.7	8:		P
	Zinc	250		. "	P
	Cyanide	0.62	U		CA

Color Before: EROWN

Clarity Before

COAPS

-

200UM

Clanity After

Artifacts: YES

Comments: STONES

nts:

225

-1

INORGANIC ANALYSIS DATA SHEET

MCJB30

Lab Name: SKINNER & SHERMAN LASS.

Contract: 63-D2-0039

Lab Code: SKINER

Case No.: 20101

SAS No.:

SDG No.: MCJE20

Matrix (soil/water): SQIL

Lab 3ample ID: 06015-105

Level (low/med):

LOW

Data Received: 06/03/93

% Solids:

47.3

Concentration Units (ug/L or mg/kg dry weight): MG/kG

1		1	,		,
CAI Ma.	Analyte	Concentration	ic		PR
7-23-2-5	Aluminum		} }	; 	- =
7-62-30-3	Antimony	7.0	10	. N	; ;
: 7440-33-2	Arsenio	5.3	!	N	- 1 -
17460-39-3	:Zarium	101	ŀ	!	; -
7440-41-7	Seryllium	2.59	2		18
7443-43-9	:Cadmium	0.70	: 3	4	; e ;
: 7440-70-2	Calcium	9430	1		P
17420-47-3	:Chromium :	73.6		•	; = ;
: 7440-48-4	:Copalt :	13.7	8	}	 P
17443-56-8	(Copper)	65.4	1 :	<u>,</u>	(9)
7439-29-6	ilron ;	20900	: :		19
7439-92-1	Lead	179		<u>:</u>	¦₹ :
7434-95-4	:Magnesium:	5070	:		P
7439-96-5	Manganese	511		*	: 9 ;
7439-97-6	!Mercury !	0.46	' '		(cv:
7440-02-0	inickel :	45.2			P
7440-09-7	Potasaium	1380	8;		P
7782-49-2	:Selenium :	1.3	U!	WN	! # ;
7440-22-4	Silver :	1.5	u;		
7440-23-5	Socium	206	8;		
7440-25-3	:Thallium ;	1.1	u		15 1
7440-62-2.	:Vanadium :	33.3 !	.;	<u>.:</u>	IP I
7440-66-6	Zing	306 - 1	- 1		IP I
	Cyanide :	1.0	U		CAL
	1	- · · · ·	_!	**,* *	النداد

BROWN

BROWN

Clarity After:

Comments:

ILM02.1

Lab Name: Skinner & Sherman Laes.

Contract: 68-02-0039

MCJE31

Lab Code: SKINER

Case No.: 20101 SAS No.:

SDG No.: MCJE20

Matrix (soil/water): 50IL

Lab Sample ID: 06018-115

Lavel (low/med):

上づい

Date Received: 06/03/93

% Solids:

21.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	: Concentration	 C	i n	•
:	Aluminum	119000	: -	·	_ =
17442-35-0	Antimony	15.3	Į.	: N	
17440-33-2	Arsenic	4.8	! 2	. WN	:F:
17440-59-5	Sarium	217	1-		- A :
17440-41-7	Servilium	0.34	8	•	: ? ;
17440-43-9.	Cadmium	10.3	:		.∌ ;
17440-70-1	Calcium	11400		#	₽
17440-47-3	Chromium	366	1	•	:
7449-43-4	(Cobalt :	15.3	; ;		.= ;
17440-50-8	Cosper	3340			. ? !
17439-39-5	Iron	25000	1 :		; ? !
17439-92-1	Lead	558	:		
7439-95-4	Magnesium	4340			
17439-96-5	Manganese	928		*	: ? :
7439-97-6	Mercury	1.8			[CV]
7440-02-0	Nickel	133	1		7
7440-09-7	Potassium	744	8		(:P
7782-49-2	Selenium	4.0	U	N	` ; * ;
7440-22-4	Silver :	4.3			: ٦:
7440-23-3	Scalum :	315	8		(P)
7440-28-0	Thallium :	0.56	U;	•	5
7440-62-2	Vanadium	92.0			ie:
7440-66-6	Zinc	1340			P
	Cyanide	0.60	Ů	•	CA

Artifacts:

dmments:

STONES, WOOD

EPA SAMPLE NO.

MCJB32

INCRGANIC ANALYSIS DATA SHEET

Lab Name: SKINNER & SHERMAN LASS.

Contract: 68-02-0039

Lab Code: SKINER

Case No.: 20101

SAS No.:

Matrix (soil/water): SOIL

Lab Sample ID: 06018-125

Lavel (low/med):

LOW

Date Received: 06/03/93

₹ Solids:

37.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG.

•		1	•	!	!
CCAS No.	: Analyte	Concentration	c	, a	m
_753-59-8	-: Aluminum	3260	;	-	
17440-16-0	lantimony	3.3	Ų	l M	: ج: `
17440-38-2	:Arsenic	50.2	1	SN	(F)
17410-39-3	Sarium	209	; ;	; '	P
17440-41-7	:Seryllium:	3.44	:8	}	P
7440-43-9	(Cadmium	0.36	10		: م!
7440-70-1	(Calcium)	10900		*	P
7440-47-3	(Chromium)	161	: :		: ح:
7440-43-4	(Cobalt :	13.9	: :		; ? ;
17440-50-3	:Copper :	5270	: :	!	; = ;
17439-89-6	:Iron :	91300			12
7439-92-1	iLead :	491	: :		:F:
7439-95-4	Magnesium	2570			P
7439-96-5	(Manganese)	1190	: :	*	(P)
7439-97-4	Mercury	0.42			CV
7440-02-0	Nickel	121	:		12 1
7440-09-7	Potassium!	507	8		P 1
7782-49-2		2.9		\$N	P I
7440-22-4	·	6.1		•••	P
7440-23-5	Sodium	147	s:		ie i
7440-28-0	·	0.59		W	
7440-62-2	Vanadium	30.5			(P)
	Zine	466	i		P .
	Cyanide	0.55	u:		CA

Color Before: BROWN

BROWN

Comments:

STONES, WOOD

* INORGANIC ANALYSIS DATA SHEET

EFA SAMPLE NO.

Lab Name: SKINNER & SHERMAN LABS. Contract: 64-02-0039

SOIL

Lab Code: SKINER

Case No.: 20101 SAS No.:

SDG No.: MCJB20

matrix (soil/water): 1014

Lab Sample ID: 00018-135

Level (low/med):

LCN

Date Received: 06/03/93

% Solids:

79.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAR MAL	Analyte	Concentration	C	6	M
7_20-2-49-3	Aluminum	ន មួង វិធ <u>្វា</u> ង ។	 		
7443-30	Antimony	33.0		N	P
7440-33-1	(Arsenio (34.7	-	N	;≓
7440-39-3	:3arium :	2230	! . {		
7440-41-7	(Seryllium)	0.32	:8:	. *	12
7440-43-4	:Cadmium !	101	1 1	* * * * * *	1 🖰
7440-70-3	!Calcium !	44700	: - :	Table 1	18
7440-17-3	Chromium	1.38	: 1	* • • • • • • • • • • • • • • • • • • •	<u> </u>
7440-43-4	:Cobalt :	33.7	: :	h	[]
7443-50-3	(Copper :	1240			: p
7437-29-4	:Iron :	48200 ···		*	
7439-92-1	!Lead :	2+30	: :	100	7
7439-45-4	Magnesium	5970			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
7439-96-3	Manganese	2000	;	•	" 7
7439-97-5	Mercury	0.50	<i>-</i> .	100	CV
7440-02-0	:Nickel :	/112 - 7	;		P
7440-09-7	:Fotassium:	2200			P
7782-49-2	Selenium	10.4	;	SN -	: 7
7440-22-4	Silver	12.6		2.5	P
7440-23-5	!Sodium !	756	8:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$! P
7440-28-0	:Thallium :	0.65	U	- ₩	F
7440-62-2	:Vanadium :	90.4		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	`` ;
7440-66-6	Zinc :	4550	i	er en en en en en	; P
	Cyanide :	0.59	u:	den ar	CA

BROWN

ROOTS, STONES

AR000241

ILM02.1

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INDRGANIC ANALYSIS DATA SHEET

EPA SAMPLE TO

WCJEJ4

Lab Name: SKINNER & SHERMAN LABS.

| Contract: 63-02-0039

SOLL-4

Lab Code: SKINER

Lavel (low/med):

Case No.: 20101

SAS NO.:

SDG No.: MCJ820

Matrix (soil/water): SOIL

Lab Samola ID: 06013-148

Date Received: 06/03/93

% Solids:

92.5

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

ICAS No.	: : Analyte	: Concentration:	. ;		7
· Land Garage	, Andiyed	(www.commercer.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.	· ·		
272-30-3	Aluminum	3::10	- ; ·	-	— <u>-</u> -:
:	Antimony	3.7 1	1!	N	; .> ;
17440-78-3	:Ansenio	1.3 16	3¦	SN	F
17440-09-0	:Sarium	1 25.1 11	3 ;		: 🕫 :
:7440-41-7	Saryllium	0.20:	3 :		
7440-43-9	:Cadmium	0.35	ا ل		;
7440-70-1	(Calcium)	340 (8	3 :	*	(P)
17440-47-3	(Chromium	36.4 !	. :	*	; P ;
: 7440-48-4	(Cobalt :	3.5 15	3:		: 2 :
こうにんのっちのっき	Copper	17.1 (1		: 🖹 :
17439-39-5	licen :	5950 :	1		
17439-92-1	Lead :	37.0 (;		17
7439-95-4	Magnesium	781 (8	3:		: P :
7439-96-5	Manganese	56.7 :	:	4	18
7439-97-6	Mercury	0.05;5	3:		(CV)
7440-02-0	Nickel	12.1	1		P
7440-09-7	Potassium!	456 :8	3 :		18 1
7782-49-2	Selenium	0.66;1	1:	N,	:F :
7440-22-4	Silver	0.78:0	J:		¦₽ ¦
7440-23-5	Sodium	62.4 18	3:		IP I
7440-28-0	:Thallium :	0.54!	11		F
7440-52-2	Vanadium	12.6	ł		2
7440-55-6	:Zinc ;	41.9	;		: P :
	Cyanide	0.51:1)		CA
	!		.1_		_

Color Before: EROWN

Clarity Eefore:

exture: COARSE

Color After: EROWN

Clarity After:

Artifacts: YES

Comments: STONES

ムフト

INCROANTS ANALYSIS SATA SHEET

EPA SAMPLE NO.

Lab Name: SKINNER & SHEFMAN LABS.

Contract: 64-02-0009

Lap Code: SKINER

Case No.: 20101 SAS No.:

SDG No.: MCJ820

Matrix (soil/water): Soil

. Lab Sample ID: 26013-135

Lavel (low/med):

17-04

Date Receives: 06/03/93

% Solids:

37.9

Concentration Units (uc/L or mg/Kg dry weight): MG/KG

orian Mo.	Analyte	Concentration	ţÇ	ing Gray	. M
	:Alluminum :	= ମଧ୍ୟ	:: -	-	
7 3 - 36 - 3	Antimony	5.3	Ü	N .	
7440-33-1	.Arsenis :	3.5		N	7
7443-39-3	:Sarium :	52. L	:		
7442-41-7	.Seryllium!	0.45	: E		(
7440-45-4	:Cadmium	0.3ㅎ	:01		7
7440-70-2	:Calcium :	7000	1 1	* *	
7443-47-3	:Chromium :		; " ;	•	12
7440-48-4	Cobalt	4.5	8		: = ·
74-0-50-3	Copper	22.1			: 0
7432-29-6	Iron	13100			4
7439-92-1	Lesa	73.3	ľ		7
7439-95-4	(Magnesium)	1370	; i		. (2
7439-96-5	Manganese;	213	:		
7439-97-6	:Mercury ;	0.28			; cv
7440-02-0	!Nickel ;	5.5	8;	•••	12
7440-09-7	Potassium;	410	В:		; P
7782-49-2	Selenium	0.71	ÜΪ,	WN	15
7440-22-4	Silver	0.81	U:		
7440-23-5	Socium !	102	2:		; P
7440-28-0	Thallium :	0.53			: #
7440-52-2	Vanadium :	40.2	1		12
7440-66-6	Zinc	73.4	•		P
	Cyanide :	0.54	U:		CA

Color Sefore: EROWN

Clarity Sefore:

Clarity After:

Artifacts: YES

omments:

ILM02.1

INORGANIC ANALYSIS DATA SHEET

SPA SAMPLE NO

MCJESE

Lab Name: SKINNER & SHERMAN LABS.

Contract: 68-02-0039

Lab Code: SKINER

Case No.: 20101

SAS No. :

SOG No.: MCJ822

Matrix (soil/water): SCIL

Lab Sample ID: 06018-158

Level (low/med):

LOW

Date Received: 06/03/93

% Solids:

90.1

Concentration Units (ug/L or mg/kg dry weight): MG/kG

CAR No.	Analyte :	Concentration	c	:	m
	:Aluminum	5470	-:	-	<u>- اِ اِ</u>
7443-36-3	(Antimony	3.7	u:	N	; ?
7440-33-2	Arsenia	3.9	1	N	; F
7440-39-3	:Barium :	74.1	1		
	Beryllium:	0.43	:5		-
7440-43-2	Cadmium	0.35	U:		: =
7443-73-2		7520	•	*	9
	Chromium	22.3	:	•	; ; =
アムムロームコーム	·	5.9	5:		; P
್ಷೂ೧-ನರಿ-ತ	:Copper :	25.8 1	:		; >
7439-89-5		12500 - 1	1		; =
1439-92-1	:Lead :	201	i	+	: :=
7439-95-4	(Magnesium)	- 2250	:		; P
7439-96-5	Manganese	240	;	*	; P
439-97-6	Mercury	0.25!	1		CV
440-92-9	:Nickel :	6.1	8:		: P
440-09-7	Potassium	424	5:		; 2
722-49-2	:Selenium :	0.73	U!	WN	: =
442-22-4	: silver	, 0.781	u:		; -
440-23-3	Sodium	91.3	8:		P
440-28-0	[Thallium	0.59;	U;		; F
440-62-2	: Vanadium :	31.9	1	•	; P
440-66-6	:Zine :	77.0 :	:		P
	Cyanide :	0.55	u!		!CA

Color Before: BROWN

Clarity Before:

Color After:

BROWN Clarity After: Artifacts: YES

Comments:

STONES

TI M02. 1

ARODO244

Lad Name: Skinnes, i Shesman Lads. : / Contract: 64-02-2039

Lab Code: SKINER

Case No.: 20101

SAS No.: SOG No.: MCJB12

Matrix (Spil/water): SGIL

Lab Sample ID: 06018-178

Level (low/med); LOW

- Date Peceived: 06/03/93

* Solids;

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No. 1	Analyte	Conc	ensnat	ion	C		M	į
* := 2.0 = 5	-Luminue		1.5000		-		- =	
	Janeimon/ S		11	. 3	; €	: N .	; 😑	1
7443-38-2	iArsenia :		4	. 3	:6	الانط	7	4
7-4-7-39-3	:Sarium	Daga - Ö	202		F	1	ج :	1
7443-41-7	:Eeryllium:	er er	0	.71	: 8	!	18	1
7443-43-9	Cadmium		9	. 5	1	1		1
7443-73-2	Calcium :	Profile	11000	in the	1	* "^		1
7440-47-5	Chromium	* 7	299	f +	! "	*	: e	
7410-13-1	:Cabale :		12	. e				
7447-58-5	Chaper	* 1.1.1.	2150				; e	:
743443444	:Iron :		43700			· }	· حم ا	<u> </u>
7439-42-1	Lead !	10 to \$ 15	352				-	
7434-65-4	!Magnesium!	200	4060			· · · ·		
74.33-49-5	Manganess		983	*:		77 R	· P	
7439-97-5	Mercury	A -2 -4 -7	2	. 5			cv	
7440-02-0	Nickel	103	113) p	:
7442-09-7	!Potassium!	· · · · · · · · · · · · · · · ·	725	·	8	er e	P	į
	Selenium				: u :			
7440-22-4	Silver			. 4	:		9	
7440-23-5	Socium :	13-3 %	264		2	100	. e	!
7440-22-0	:Thallium :			.64	. — .			
7440-62-2	:Vanadium :	• *	32		-	and the second		•
7440-66-6	Zinc	The second secon	1320		! !			•
	Cyanide		0		 ! !		•	•
	icamurae i		•	. 00			1 0	4

comments:

AR000245

1A VOLATILE CRGANICS ANALYSIS DATA SHEET

EPA	Sample 174.
	THE STATE

CKMSQ Contract: 65010084 Lab Name: ENVIRGEYSTEMS Lab Code: ENVSYE Case No.: 20101 SAS No.: ____ SDG No.: CKW Matrix: (soil/water) SCIL Lab Sample ID: 060833 Sample $\omega t/vol$: 5.00 (q/mL) G Lab File ID: XEESOAO Date Received: Laval: (low/med) LCW 06/03/93 % Moisture: not dec. _______________ Date Analyzed: 05/10/93 GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: _____1.0 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ___ (CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG IU 14 14 !U : 75-01-4------! Chloride____! 14 10 : 75-00-3----Chlorosthame_ IU 14 75-09-2----Methylene Chloride____ 10 IJ : 67-64-1-----Acatons__ 21 1 : 75-15-0-----Carbon Disulfida IU 14 75-35-4-----1, 1-Dichloroethene___ 14 IU IU 14 : 540-59-0----1, 2-Dichlorgethene (total) 14 10 | 67-65-3------Chloroform 14 10 : 107-04-2-----1, 2-Dichlorgethane__ 14 10 79-93-3----2-Butanone__ 14 10 71-55-6----1,1,1-Trichlorosthans____ 14 IU : 54-23-5----Carbon Tetrachloride____ 14 IU 75-27-4----Bromodichloromethane_ 14 10 14 IU : 10041-01-5----cis-1.3-Dichlorogropene_ IU 14 : 79-01-4----Trichloroethene IU 14 : 124-42-1----Dibromochloromethane_ 14 IU 79-00-5-----1, 1, 2-Trichloroethans___ 14 10 : 71-43-2----3enzana_ . 14 !U : 10041-02-4----trans-1.3-Dichloropropene 14 : U 14 10 103-10-1----4-Mathul-2-Pentanone 10 14 : : 591-78-6----2-Hexanone_ 14 IU 1 127-13-4----Tetrachloroethene___ 14 10 1 79-34-5-----1, 1, 2, 2-Tetrachloroethane___ 14 IU : 108-88-3-----Tolugne____ 10 14 i 109-70-7----Chlorobenzene 14 10

FORM I VOA

: 100-41-4-----Ethylbenzene__

| 1330-20-7-----Xylene (total)____

: 100-42-5----Styrene____

14

14

14

IU

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ia VCLATILE CRGANICS ANALYSIS DATA SHEET

EFA SAMPLE NO

Lab Name: ENVIROSYSTEMS	CXW21
Lab Code: ENVEYE Case No.: 20101	SAS No.: SDG No.: CKWZO
Matrix: (soil/water) <u>ECIL</u>	Lab Sample ID: 060834
Sample wt/vol: 5 CO (g/mL) G	Lab File ID: 060834X
Level: (low/med) <u>LOW</u>	Date Received: 06/03/93
% Maisture: nat dec. <u>IS</u>	Date Analyzed: <u>06/10/93</u>
GC Column: <u>RTX-502.2</u> IC: <u>0.530</u> (mm)	Dilution Fector: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume:(u
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q

74-27-2	Chioromethane	•	14	ไบ
	Fromomethane	- }	14	
75-01-4	Vinyl Chloride	- ;	14	
		•		
75-09-2	Mathulene Chloride	- ;	14	ίυ
7-64-1	ChiordethaneMethylene ChiorideAcetoneCarbon Disulfide1, 1-Dichloroethene	-	19	1
75-15-0	Carbon Disulfide		14	iu-
'5-35-4- -	1, 1-Dichlorge thens	- ;	14	iŭ
				10
40-59-0	1, 2-Dichlores thene (total)	- ;	14	ΙŪ
7-64-3	Chloroform	_	14	
07-06-2	Chloroform 1, 2-Dichlorosthane	-	14	
8-93-3	1,2-Dichlorosthane2-Butanone1,1,1-TrichlorosthaneCarbon TetrachlorideBromodichloromethane1,2-Dichloropropane	-;	14	iŭ
1-55-6	1, 1, 1-Trichlorgethane	- ;	14	iŭ
6-23-5	Carbon Tetrachloride	- ;	14	iŭ
5-27-4	Bromodichloromethane	- ;	14	IÜ
8-27-5	1, 2-Dichloropropage	_	14	ΙŪ
0061-01-5-	cis-1.3-Dichloronene	- '	14	
9-01-6	Trichiorosthens		14	,
24-48-1	cis-1,3-DichloropropeneTrichloroetheneDibromochloromethene	-	14	์ เบ
'B-00-5		4.	14	IÜ
1-43-2	Benzene	- ;	14	เบ
0041-02-4	trans-1.3-Dichloroprocene	- ;		10
5-25-2	Bromoform		14	Ü
08-10-1	4-Methul-2-Pentanone	– ;		IU
91-78-6	4-Methyl-2-Pentanone 2-Hexanone Tetrachloroethene	- ;	14	ΙŪ
27-16-4	Tetrachicrosthene		14	Ü
 9-34-5	1, 1, 2, 2-Tetrachloroethane		14	เบ
AA - 86 - A .			14	iU
08-50-7	Chiorobenzene	-	14	IU J
00-41-4		− ¦comeny e y St	14	iù E
WW TA T	Ethylbenzene Styrene	•	14	10 0
770-20-7	Xulene (total)	- ;	14	UA

	VCLATILE	1A Crganica Analysi	is data she	et i	EPA SA	MPLE 1
					CKM53	!
Lab Nam	e: <u>Envirosys</u> t	<u> </u>	Contract:	68010084	!	
Lab Cod	le: <u>ENVSYS</u>	Case No.: 20101	SAS No.:	SDG	No. : CH	เพรอ
Matrix:	(soil/water)	SCIL	. 1	Lab Sample ID:	060835	<u> </u>
Sample	wt/vol:	5.00 (g/mL) G		Lab File ID:	060835	<u> </u>
Level:	(law/med)	LGW		Date Received:	VED/90	<u> </u>
% Maist	ure: not dec.		- 1	Date Analyzed:	06/10/	<u> 193</u>
GC Colu	mn: <u>RTX-502.2</u>	_ 15: <u>0.530</u> (mm)	1	Dilution Factor	r:	1.0
Soil Ex	tract Volume:	(UL)	•	Sáil Áliquat V	olume: _	(t
_	CAS NO.	COMPOUND		TRATION UNITS: or ug/kg) <u>UG/k</u>	3	G .
:	74-93-9	Chloromethane_ Bromomethane_ Vinyl Chloride		1	50 IN 50 IN	;
:	75-00-3 75-07-2 67-64-1	Chloroethans_ Methylane Chlo Acetons	ride		20 IU 20 IU 51 I	
1 1	75-15-0 75-35-4 75-34-3	Carbon Disulfi 1.1-Dichloroat 1:1-Dichloroat	de :hene :hane		20 IU 20 IU	! !
1	67-54-3 107-06-2	1.2-Dichlorost Chloroform 1.2-Dichlorost 2-Butanons			50 IN 50 IN	
: · · · · · · · · · · · · · · · · · · ·	71-53-4 54-23-5	:,i,i-Trichlor Carbon Tetrach	loride		11 IJ 20 IU 20 IU	
	78-9 7-5 10061-01-5	Bromodichlorom 1,2-Dichloropr cis-1,3-Dichlo			20 IU 20 IU 20 IU	
	124-48-1 79-00-5	Trichloroethen Dibromochlorom 1.1,2-Trichlor	ethans	 }-	20. IU 20. IU 20. IU	:
:	71-43-2 10061-02-6	Benzana <u></u> trans-1,3-Dich	larcorcoen		20 IU 20 IU 20 IU	; ;
1	108-10-1 591-78-6	3romoform 4-Methyl-2-Pen 2-Hexanone Tetrachloroeth	tanone		20 IU 20 IU	
1 7	79-34-5 -	Tetrachloroeth 1,1,2,2-Tetrac Toluene	hloroethan	* ;	20 IU 20 IU 7 IJ	; ;
	108-90-7 100-41-4	Chlorobenzene_ Sthulbenzene			20 IU	المحل
1	100-42-5	Sturene		<u>:</u>	20 IU	2tc

VCLATILE CRGANICS ANALYSIS DATA SHEET

EPA	SAMPLE 1	

					· ·	}		:	. CXW	22
	Lab	Name:	ENVIROSYS	TE45	C (ntracti	6801008	4 _ i	CAM	دع
\bigcup						يون د ۱۷ سوم يو. د د د				
	Lab	Code:	ENNEAR	Case No.: 20	<u> 1101 </u>	ias No.:	*	. 506 l	4a. : (KMSO
	Mati	rix: (scil/water) <u>so:-</u>			Lab Samp	le ID:	93060	0836
	Samp	ole wt	/vol: 0 1	3.00 (g/mL	.) <u>c</u>	1	Lab File	ID:		36)
-	Lave	•1: .	(low/med)	LCH			Date Rec	eived:	06/8	2/93
•	Z M	istur	e: not dec.	74		5 - a - c - d - d - d - d - d - d - d - d - d	Date Ana	lyzed:	06/1	1/93
	GC (Calumn:	RTX-502.	2 ID: <u>0.530</u>)(mm)		Dilution	Factor:		1.0
	Scil	Extra	ect Volume:	: (v	(L)		Soil Ali	quat Va	lume;	(
						CONCEN	TRATION	UNITS:		
•		CAS	E NO.	COMPOUND			or ug/Kg			Q
		,—	<u> </u>	and the second s						
		74-	-97-3	Chisramet	hana			1	18. !!	ן נ
		74-	-23-9	3romometh	ane			_	18 11	=
	¥.	75-	-01-4	Vingl Chl	oride				18 11	
		1 -75-	-00-3	Chistoeth	476		<u> </u>		18 1	Ü
				Methylene					L1 1	· .
				Acetone					1 65	1
				Carbon Di					18 1	U i
				1, 1-Dich 1					18 11	-
•				:, 1-Dich1					18 11	Ū į
				1,2-Dichl			1)	. *	18 1	ا
-				Chlorofor					18. 11	Ū į
		1 107	'-04-2	1, 2-Dichl	orcether	•			18 :1	Ū i
				Z-Butanon					18 11	Ū
1	-	71-	.55-4	1, 1, 1-Tri	chloreet	hane	;		LB . 11	Ü
				Carbon Te					18 11	Ŭ I
		1 75-	-27-4	Bromodich	lorometh	ane	<u> </u>		18 11	ן ט
		1 78-	·27-5	1, 2-Dichl	67657654	กด	<u> </u>	1	18 11	U į
•		1 100	61-01-5	cis-1,3-D	ichlores	rosene		1	18 11	U I
•		79-	.01-6	Trichlore	ethene_		<u> </u>		18 11	U ·
		124	1-48-1	Dibromach	lerometh	ane	1		18 11	U I
·	·	: 79-	.00-5	1, 1, 2-Tri	chloroet	hane	μ*		18 11	ן, ט
									18 11	U Î
		1 100	61-02-6	Benzene trans-1.3	-Dichlor	opropen	ei	t je giti, mil	LB 19	U i
••									18 11	U I
		1 108	-10-1	4-Me thy 1-	2-Pentar	one	1		18 11	U I
				2-Hexanon					18 11	U I
•		1. 127	'-18-4	Tetrachlo	raethene	<u> </u>			LB 11	U I
		1 79-	34-5	:, 1, 2, 2-T	etrachlo	reethan	<u>e</u> ;		18. 11	ו ט
	1.	1 106	-88-3	Toluene			;		18 11	U I
	•	108	l-90-7	Chloroben	zene	1.45			LE II	U TOSE
()	~	1. 100)-41-4- -	Ethylbenz	ene		1		18 1	
\sim		1 100)-42-5	Styrene			!		18 11	
		1 133	0-20-7	Xylene (t	otal)_				16 1	u みぢ
• •		! ·		and the second second			!	· · ·	1.	

volatile organice analysis data sheet

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	EBA	SAMPLE

,	CKW24
Las Name: <u>ENVIROSYSTEMS</u>	Contract: <u>68D10084</u> !
Les Code: <u>ENVSYS</u> Case No.: <u>EC101</u>	SAS No.: SDG No.: CXWZO_
Matrix: (soil/water) SOIL	Lab Sample ID: 060837
Sample ut/vol: 5 00 (g/mL) G	Lab File ID: 0408378
Lavel: (low/med) LCW	Data Received: 06/02/93
% Moisture: not dec	Date Analyzed: 06/11/93
GC Calumn: <u>RTX-502.2</u> ID: <u>0.550</u> (mm	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume:(
	CONCENTRATION UNITS:
CAS NO. COMFGUND	(ug/L or ug/Kg) UG/KG Q
	14 10
: 74-87-3Chlaromethane : 74-83-9	14 !V !
75-01-4Vinul Chlorid	• 14 IU I
: 75-00-3Chloroethane_	14 IU I
: 75-69-2Methylene Chl	orideI . 14 IU I
67-44-1Acetone	17 1
: 75-15-0Carbon Disulf	1de 14 U \(\sigma\)
: 75-35-41, 1-Dichlores	thene 14 IU
: 75-34-31, 1-Dichloras	
: 540-59-01, 2-Dichloros	thene (total) 14 U
: 67-66-3Chlarcform	14 IV
75-93-32-Sutanona	thane 14 U 14 B
71-55-41,1,1-Trichlo	roethane 14 IU
: 54-23-5Carbon Tetrac	
: 75-27-4	methane 14 IU
73-87-51, 2-Dichlorop	ropane 14 U
: 10061-01-3cis-1, 3-Dichl	orograpene 14 U
: 79-01-4Trichloroethe	ne 1 14 (U)
: 124-48-1Dibromochloro	methanei 14 IU i
; 79-00-51.1,2-Trichlo	roethans 14 IU
71-43-2Benzens	I 14 IU
10061-02-6trans-1.3-Dic	hloropropens 14 IU
: 75-25-2Bromoform	14 IU
108-10-14-Methyl-2-Pe	ntanone 14 U
: 591-73-62-Hexanone	hene 1 14 IU
: 12/-18-4	chlorosthans 14 iU
: 108-88-3Toluena	14 IU .
: 108-90-7Chlorobenzene	14 10 / 74
# : 100-41-4Ethulbenzene_	14 IU W
: 100-42-5Styrena	14 10 18
1330-20-7Xylene (total) 14 IV 2 30
	,

FORM I VOA

ia VCLATILE GRGANIGE ANALYSIS DATA SHEET

EPA SAMPLE

CXMSQ.

Lab	Name: <u>ENVIROSYST</u>	<u>EMS</u>	Contract:	68D10084		40 gy
; - Lab (Code: <u>ENVSVS</u>	Cate No : <u>20101</u>	SAS No.:	SDG	No. :	CXMSO
ria tr	ix: (sail/water)	SCIL_	<i>.</i>	_ab Sample ID:	0605	38
Samp :	le wt/val:	5.00 (g/mL) G		ab File ID:	0608	38
Leve	l: (low/med)	LCU	1	Date Received:	06/0	3/93
% Ms:	isture: not dec.		**************************************	Date Analyzed:	06/1	0/93
6 0 0	olumn: RTX-502.2	ID: <u>0.530</u> (mm)				
* * *	, , , , , , , , , , , , , , , , , , ,	(UL)		Boil Aliquet Vo		
4 H				TRATION UNITS:		
	CAS NO.	COMPOUND	. (ug/L (ar ug/Kg) <u>UG/KG</u>	-	G.
,	;	Chicromethana_ Eromomethane				U . !
	75-01-4	Vinyl Chloride			• .	i U
	75-00-7	Chloroethane		 ;	_	Ŭ
	75-08-2	Methylene Chic	T 1 4 4	 '		Ü
•	47-44-1	Acetone	,, va.e.	 ;	19	•
j .	75-15-0	Carbon Disulfi	4.0			u :
		i, i-Dichloroet		 '	-	Ü
	75-34-3	1.1-Dichlorpet		 '		Ü
,	540-55-0	1, 2-Dichlorae t	chane			Ü
*		Chloroform_			_	Ŭ :
	1 107-04-2	1, 2-Dichlorge t	· h a m a			Ü
	1 72-63-7	2-Butanone	.ueiis	 '	-	J.
•	71-55-4	1,1,1-Trichlor				Ü
' n	1 54-33-5	Carbon Tetrach	lecide			Ŭ
						ŭ
	1 78-87-8	Bramodichlorar 1,2-Dichlorapr	ne chane		14 1	
	10041-01-5	cis-1,3-Dichlo	obeus		12.	
4 ;	1 78-01-4		ensquare_		14 1	<u> </u>
	174-46-1	Trichloraethen			10 1	
4	1 75-00-5	Dibromochlorom	ne chane		14 1	
*	! 71-47-7	1,1,2-Trichlor	of cutte		14	U :
1.	10041-02-4	Benzene trans-1,3-Dich	1.0000000000000000000000000000000000000			Ü
7			randbrobsu(''	14	_
	1 100-10-1	Bromoform 4-Methyl-2-Pen	<u> </u>		1.5	U . !
			renone			U I
T_{\perp}		2-Hexanone				U
* .	16/-15-4	Tetrachlorceth			14	Ų
•		1, 1, 2, 2-Tetrac	uroroetu a u		44 i	U :
	105-55-3	Toluene	· · · · · · · · · · · · · · · · · · ·		74 1	المله ال
•	1 108-70-/	Chlorobenzene_	e, 7		44 i	279
15	IUU-Al-4	Ethylbenzene	Fig. 1	<u>'</u>	14	U J''
	; LUU-42-3	Styrene Xylene (total)		 :	14 !	714
	1330-20-7	xylene (total)		 :	14: 1	4 AY
	i '		and the second s	1	1	i

A! TEBHE ATAD ELEYJANA EDINADRD EJLTAJDV

APPRILE CUREATIS W	MERISIS SELE SUES!	
		CXW27
Lab Name: <u>ENVIROSYSTEMS</u>	Contract: A8010084	! CAME!
230 Mana . 237 Mana . 23 Mana	400000000000000000000000000000000000000	'
Lab Code. <u>ENVSYR</u> Case No.: <u>S</u>	O1O1 SAG No.: Si	DG No. : CXWZO
		···
matrix: (soil/water) <u>SCIL</u>	Lab Sample I	0: 060839
Sample wt/vol: 5.00 (g/m	L) G Lab File ID:	040839
	**	· · · · · · · · · · · · · · · · · · ·
Laval: (low/med) LOW	Data Receive	4: <u>04/03/93</u>
% Maisture: not dec	Data Analyza	1: 04/10/93
GC Column: <u>ATX-508, 2</u> ID: <u>0.53</u>	Q (mm) Dilution Fac	- 1. U
Soil Extract Volume:(uL) Soil Aliquet	Volume:(c
		- .
	CONCENTRATION UNIT	
CAS NO. COMPOUND	(ug/L or ug/Kg) <u>UG</u>	<u>krg</u> g
		
: 74-87-3Chlarome	• • • • • • • • • • • • • • • • • • •	13 10 1
1 74-33-5		13 IV I
: 75-01-4Vinyl Ch	lorida	13 10 1
75-00-2	• • • • • • • • • • • • • • • • • • •	13 10 1
: 75-00-3Chlorosti : 75-09-2Methylen:	a Chlanida	67
	· Cittorius	
67-64-1Acatona_ 75-15-0Carbon D	* a = 1 A 4 A a	120 : 13 :U —
75-35-41,1-Dich		
		13 10 1.
: 75-34-31, 1-Dich		13 (0 !
: 540-59-01, 2-Dich	iorostnens (total);	13 10 1
: 67-64-3Chlorofor	rmi	13 (U)
: 107-06-21, 2-Dich	Idrostnane	13 0
78-93-32-Butano) •	7 IJ I
: 71-55-41, 1, 1-Tr:		13 0
: 56-23-5Carbon T	etrachloride	13 U
: 75-27-4Bromodic	hloromethane;	13 (0)
; 73-97-51, 2-Dich:		13 (0)
10061-01-5cis-1.3-	Dichloropropene;	13 U
79-01-4Trichler	oethene <u>'</u>	13 10 1
· 154-49-1-4-1-151313W@CI	ntoromerususi	13 (U)
: 79-00-51.1.2-Tr:	ichloresthans b-	13 (U)
71-43-2Bensene_		13 (U)
: 10061-02-6trans-1,:	3-Dichloropropenei	13 (U . !
: 75-25-2Bromoford	n!	13 U
: 108-10-14-Methyl-	-2-Pentanone:	13 (0)
: 591-78-62-Hexanor	ne!	. 13 IU I
127-19-4Tetrach1	proethene;	13 10 1
: 79-34-51, 1, 2, 2-1	Tetrachloroethane:	13 U
109-38-3Toluana_		1 J
i 103-90-7Chlorobes	nzene	13 1U D
= 100-41-4Ethylban:	rene	13 IU D
100-42-5Styrene_		13 10 211
1330-20-7Xulana (1	total)	13 10 740

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

CXMSS Contract: 68D10084 Case No. : 20101 SAS No. : EDG No. : CKW20 Matrix: (scil/water) SCIL Lab Sample ID: 93060840 Sample wt/vol: <u>5.00</u> (g/mL) <u>G</u> .Lab File ID: 06/92/93 Level: (low/med) <u>LOW</u> Date Received: Date Analyzed: 06/11/93 % Moisture: not dec. _ 25 Dilution Factor: GC Column: RTX-502.2 ID: 0.530 (mm) Soil Extract Volume: _____ (uL) Soil Aliquot Volume: CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	G
71-67-7			2 111
	Chigromethane		.3 1V .3 (U
75-61-4	Bromomethane		13 10
			.3 tu .
75-08-2	Chloroethene methylene Chlo		3 10
47-44-1	Acetone		4 !
75-15-0	Carbon Disulf	A A CONTRACTOR OF THE CONTRACT	3 10
75-75-4			3 10
75-34-3	1, 1-0; ch 1 ch c		3 10
540-58-0	1, 2-Dichlorce	bhane /baball	13 10
47-44-7	Chionodona		3 10
107-04-2	Chloroform_ 1,2-Dichloroe	h ha en es	3 10
78-63-3			8 18J
71-55-6	1.1.1-Teickles		3 10
54-23-5	Carbon Tatraci	lanida	3 10
75-27-4	Bromodichlaro	nioride to the sam	
78-87-5	1.2-Bichleren	ropane <u>river me</u> t mente in in	is iu
10061-01-5-	cis-1,3-Dichle	respectant to the second second	3 10
79-01-6	Trichlorasther		3 10
124-48-1	Dibromochleren	nethane	3 10
			3: 10
	Benzene		ia: iu
10061-02-6-	trans-1,3-Dic	loregregene	3 10
75-25-2	Bromoform		3 10
108-10-1	4-Methul-2-Per		3 10
591-78-6	2-Heranone	And the second s	3 10
127-18-4	Tetrachlorost		3 10
			3 i i i i i i
108-88-3	Toluene		13 IU A
108-90-7	Chlorobenzene		13 IU 1
100-41-4	Ethulhenzese		3 10
100-42-5	Sturene		3 10 7
1330-20-7	Xulene (tetal)	was kina sana wa kata	3 10 6

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

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CAMP! T	At
" // Complete	,
	SAMPLE

		CXW29
Lab Name: <u>ENVIROSYSTEMS</u>	Contract: 6801	1
Lab Code: <u>ENVSYS</u> Case No.	: 20101 SAS No. :	SDG No.: <u>CKW20</u>
Matrix: (soil/water) SCIL	Lab S	ample ID: <u>93060841</u>
Sample wt/vol: <u>5.00</u>	g/mL) <u>G</u> Lab F	11 · ID: 040841
Lavel: (low/med) LOW	Date	Received: <u>06/22/93</u>
% Moisture: not dec. 19	Date	Analyzed: 06/11/93
GC Column: RTX-502.2 13: C).530 (mm) Dilut	ion Factor:1.0
Soil Extract Volume:	_ (uL) Soil	Aliquot Volume:(ut
	CONCENTRATI	ON UNITS:
CAS NO. COMPO		- · - · - · - · · - · · · · · · · · · ·
1		1
: 74-87-3	cmethane	12 10 1
1 74-83-93romo	methane	12 10 1
; 73-01-4Vinu	Chloride	
1,75-00-3	oethanelene Chloride	12 10 1
: 73-09-2	lene Chloride	12 (U
: 67-64-1AC 8 CO	ne	! 7 IJ \(\tag{7}\)
; /3+13-0	n Disulfide	12 10 1
; /3-33-41, [+[ichloroethene	
: 75-34-31, 1-5	ichlorosthene (total)	12 0
	oform	
107-04-21.2-	ichloroethane	1 12 10 1
! 72-27-72-2-2-1	anone	i 12 IV I
! 71-55-4	-Trichlorosthane	12 10
: 5A-29-5	n Tetrachloride	1 12 10
75-27-4	dichloromethane	
: 79-97-5	1chloropropage	12 10 1
10041-01-5	.3-Dichlorophopene	12 10
179-01-4Trich	largethene	12 10 1
124-48-1	mochloromethane	12 10 1
79-00-51,1,3	-Trichloroethane	12 (U)
1 71-43-2Benza	ne	1 12 10 1
: 10061-02-6trans	-1.3-Dichloroprosene	1 12 10 1
75-25-2Brand	form	1 12 10 1
: IOS-10-14-Mat	hul-2-Pentanone	1 12 10 1
: 591-78-6Z-Hex	anone	12 10 1
127-19-4	chloroethene	1 12 10 1
1 79-34-51, 1, 2	,2-Tetrachloroethane	المراقي ١٥ ١٧ ا
≒ 109-88-3Tolus	ភាខ <u>្</u>	: 12 :U [12] [/]
: 108-90-7Chlor	obenzene	: 12 (U)
F : 100-41-4Ethyl	benzene	i is in 27.3
: 100-42-5Styre	ከ <u>ፀ , /</u>	12 10 74 2
1330-20-7Xulen	e (total)	1 12 10 0 7

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

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!		

EPA SAMPLE :

CKM30 Contract: 68010084 Lab Name: ENVIROSYSTEMS Case No.: 20101 SAS No.: _____ SDG No.: CKW20 Lab Code: ENVEYS Matrix: (soil/water) <u>SCIL</u> Lab Sample ID: 93060842 3.00 (g/mL) G Lab File ID: 060842/6 Sample ut/vol: Date Received: 06/EZ/93 (low/med) <u>LCW</u> % Moisture: not dec. <u>53</u> - Date Analyzed: <u>06/11/93</u> GC Calumn: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 2001.0 Scil Aliquot Volume: ____(L Soil Extract Volume: ____ (uL) CONCENTRATION UNITS: CAS NO. COMPOUND , (ug/L or ug/Kg) <u>UG/KG</u> · · 74-87-3-----Chloromethane 21 · IU 21 ; 10 : 75-00-3-----Chloroethane_____: 21 75-09-2----Methylene Chloride____ : 47-44-1-----Acetone_ 75-15-0----Carbon Disulfide 21 IU 75-35-4----1, 1-Dichlorce thene____1 21 10 67-66-3-----Chloroform____ | 107-06-2----1, 2-Dichlorde thane_____ 21 · !U _16 · IBJ 78-93-3-----2-Butanone____ 1 71-55-6----1, 1, 1-Trichloroethane____! 21 | U 56-23-5----Carbon Tetrachloride____ 21 IU 21 1 10061-01-5----cis-1,3-Dichloropropens_____1/20061-21 1 79-01-6----Trichloroethene_ : 124-48-1-----Dibromochloromethane 79-00-5-----1, 1, 2-Trichloroethene-21 10 . 21 10 1 10061-02-6----trans-1, 3-Dichlaropropene____; 10 - IU 10 | 591-78-6-----2-Hexanone_____ . . 21 IU 1 127-18-4----Tetrachlorcethene 21 : U | 108-89-3----Toluene_ . . 10 - 1 J | 108-90-7-----Chlorobenzene______ 21 : 100-41-4----Ethylbenzene____ IU 21 1 100-42-5-----Styrene____ 21 IU : 1330-20-7-----Xulene (total) - 21

1A VOLATILE CRGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CKW31

Name: <u>ENV</u>	IROSYSTEMS	Cant	ract: <u>680</u>	10084	
Cade: ENV	SYS Case No. :	20101 SAS	No.:	SDG	No : CKMSO
ris: (soil	/water) <u>9871</u>		Lab	Sample ID:	93060843
ple wt/vol:	5.00 (g/	'mL) <u>G</u>	Lab	File ID:	060842
•1: (lo	u/med) <u>LCu</u>	•	Date	Received:	08/85/43
oisture: no	ot dec. <u>19</u>		Date	Analyzed:	06/11/93
Calumn: RT	K-503.2 ID: 0.5	30 (mm)	Dilu	tion Factor	:1.0
1 Extract \	Volume:	(UL)	Soil	Aliquot Vo	lume:
		· c	DICENTRAT	ION UNITS:	
CAS NO.	COMPOUN			g/Kg) <u>UG/K</u> G	<u> </u>
74-97-0	3;h1arom	ethane		!	12 10
	??romome			- ;	12 10
75-01-4	lVinyl C	hloride	· · · · · · · · · · · · · · · · · · ·	- ;	12 10
				- ,	12 10
	2Mathyla				67
67-64-1	Acstons			~į	14
75-15-0	Carbon	Disulaida		- ;	12 10
75-75-4	!1, 1-Dic	hloroathana	•	~ ;	12 10
	}			- ;	12 10
! 940_50-	-01, 2-Dic	hlarcathana	(total)	- ;	12 10
! A7-44-1	Chlorof	000	-,	- ;	12 10
1 07 03 0	2:, 2-01c	hioraethane		- ;	12 10
72-07-7	2-Sutan	ODA		·	12 10
71-55-4		richloroatha		- ;	12 10
! 54-00-5	Carbon	Tataschlonid		- ;	12 10
				- :	12 10
				- ;	12 10
)1-5				12 10
! 70-A1-4			h au a	- ;	12 U
1 194-49-	-1Dibromo		•	~ ;	12 10
	:				12 10
1 71-40-5	;	-16416161614V9	Ū. €	,m.) * -	-
1 10044-0		2-84-11		<u> </u>	
	2-6trans-1		Lob sus	-:	12 10
	2			- <u>i</u>	12 10
108-10-	14-Methy	I-Z-Fentanon	₹	- [12 10
1 371-78-	62-Hexan	0110		- !	12 10
1 127-19-	·4	lorosthane		_1	12 10 %
79-34-3	1, 1, 2, 2	-retrachloro	ethane	- .	12 10 7
: 108-88-	3Toluana			- !	12 10
108-90-	7Chlarab	enzene		- !	12 10 7
100-41-	4Ethylbe	nzene		- !	12 10
! 100-A3-	5			_1	12 IU
100-75)-7Xylene				12 .IU

ia Volatile Créanice analysis data sheet.

epa sample

CKW31RE

Lab N	ame: <u>ENVIROSYS</u>	EAG	Contract: 68010084	_
Lab C	ode: <u>Envsys</u>	Case No. : 20101	SAS No.: SDG No.: CKI	<u> 1</u>
******		497 1		
Macr:	x: (soil/water)		Lab Sample ID: 9306084	
Sampl	e wt/vol:	<u> </u>	Lab File ID: 060843F	+
		4.0	50	3
Level	: (low/med)		Date Received: 06/627	13
Z Moi	sture: not dec.		Date Analyzed: 06/11/9	73
ec co:	lums: <u>RTX-502.</u>	: 13: <u>0.530</u> (mm) Dilution Factor:	1
	•			
Soil I	Extract Volume:	(UL)	Soil Aliquot Volume: _	<u>. </u>
	ring the second of the second		CONCENTRATION UNITS:	
	CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u> (G
;	74-67-7		12 (U	
	74-83-9	3romomethene_	12 10	
			e1 12 IV	
	75-00-3	Chicroethane_	12 10	
		Methylene Chi		
	47-64-1	Acetone	12 10	
1.	75-15-0	Carbon Disulf	ide 12 U	
	75-35-4	1, 1-Dichleroe	thene 12 IU	
	75-34-3	i.i-Dichloree	thane 12 U	
			thene (total) 12 U	
	67+64-3+	Chicroform	12 10	
	107-06-2	i.2-Dichlorce	thane 1 12 1U	
	78-63-3	1-3utenone	12 10	
	. 71-55-6	1, 1, 1-Trichle	roethane 1 12 IU	
		Carbon Tetrac		
		Bromodichloro		
		1.2-Dichlorop		
,	10061-01-5	cis-1.3-Dich1	progrepane 1 12 IU	
	79-01-4	Trichloroethe	ne 12 IV	
•	124-48-1		methene	
•	79-00-5		roethanei	
1	71-43-2	3enzene	12 10	
. 1	10041-02-4	trans-1.3-Dir	hloropropenei 12 IV	
•		Bromoform		:
		4-Me thy 1-2-Pe		
		2-Hexanone		
1	127-18-4	Tetrachloroet	hene 12 IV	i
, Y			chloroethane 12 IV	i
	108-88-3	Toluene	entordethene 12 IV	_
	108-20-7	Chlorobenzene	12 10	J
	100-41-4	Ethylbaniene_	12 IV	1
a el	100-45-4	Styrene	12. 10	
e j	1220-20-7	Xylene (total	12 10	
	·			

1A VCLATILE CRGANICS ANALYSIS DATA SHEET

epa sample

CKW32 Contract: 68010084 Lab Name: ENVIRGSYSTEMS Case No.: 20101 SAS No.: _____ SDG No.: CKWZO Lab Coda: ENVSYS Matrix: (soil/water) <u>SCIL</u> Lab Sample ID: 93060844 Sample ut/vol: <u>5.00</u> (g/mL) <u>G</u> Lab File ID: 060844/3 Lavel: (low/med) LCW Data Received: % Maisture: not dec. __12 Date Analysed: 04/11/93 GC Column: ATX-502, 2 [D: 0.530 (mm) Dilution Factor: _ Soil Aliquot Volume: ____(u Soil Extract Volume: ____ (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Œ : 74-97-3-----Chioromethane 11 IU 11 10 11 IU : 75-00-3-----Chloroethane____ 11 : 75-09-2----Methylane Chlorida____ : 75-15-0-----Carbon Disulfide__ 11 IU : 75-35-4-----1, 1-Dichloroethene____ . 11 10 11 ľŪ : 540-59-0-----1, 2-Dichlorosthens (total)_ 11 10 : 67-56-3-----Chloroform 11 : 107-06-2----: 2-Dichlorde thans_____: 11 :U 1 73-93-3-----2-Sutanone____ 11 : U : 71-55-6----1.1.1-Trichloroethane____! 11 I U : 54-23-5----Carbon Tetrachloride____ IU 11 : 75-27-4-----Bromodichloromethane____ . 11 10 IU 11 : 10061-01-5----cis-1.3-Dichloropropena____; 10 11 1 79-01-6----Trichlorosthens____ 11 10 : 124-48-1----Dibromschloromethane_ IU 11 : 79-00-5-----1,1,2-Trichlorosthans IU 11 | 71-43-2----Banzana____ IU 11 : 10061-02-6----trans-1.3-Dichloropropena___: 10 11 10 11 : 109-10-1------4-Methyl-2-Pentanone____ 10 11 : 591-78-6----2-Hexanone_____ 11 10 : 127-18-4----Tetrachloroethene 11 · IU ! 79-34-5-----: 1, 2, 2-Tetrachlorgethane___: 11 IU : 103-38-3----Toluene____ 11 IU 1 103-90-7-----Chlorobenzane____! 11 IU | 100-41-4-----Ethylbenzene____ 11 10 1 100-42-5----Styrene____ IU 11 | 1330-20-7-----Xylene (total)____ 11 10

Lab (Name: <u>ENVIROSYS</u>	TEMS	Contract	56D10084	CKM33
Lab (Code: <u>ENVEVS</u>	Case No. : 20101	SAS No. :	SDG	No. : CKMSO
Matr	ix: (soil/water)	SGIL.	L	ab Sample ID:	93066845
Samp?	le wt/vol:	5.00 (g/mL) G	_	eb File ID:	060845
Leve:	1: (low/med)	LCW	De De	ate Received:	67(Y) 67/32/40
Z Mo	isture: not dec.	_12	D	ete Analyzed:	06/11/93
. GC C	olumn: <u>87x-502.</u> 3	2 ID: <u>0.530</u> (mm)	D	ilution Facto	r: <u>1.0</u>
Soil	Extract Volume:	(uL)	** S	oil Aliquot V	olume:(
•	CAS NO.	COMPOUND		RATION UNITS: r ug/kg) <u>ug/k</u>	<u>e</u> e
	: 74-37-3	Chicromethane			12 U
•	74-63-6	Chicromethane			12 10 1
•	75-01-4	Vinul Chloride_	<u> </u>		
	; /3-00-3	Chloroethane	1110		*12 U
•	! 67-64-1	Acetone	704		19 !
\bigcup	75-15-0	Carbon Disulfid			12 10
	1 75-35-4	1,1-Dichloroeth	ene	1	12 10 1
•	1 75-34-3	1, i-Dichlorosth	ane	<u> </u>	12 10 1
-	1 540-59-0	1, 2-Dichlorce th	ene (total)		12 (U)
	67-66-3	Chloroform			12 10 1
<i>(</i> .	1 70-97-7	1,2-Dichlorceth 2-Sutanone	406		12 U
	171-55-6	1, 1, 1-Trichlore	ethane		·
1		Carbon Tetrachl			12: 10
•	;\ 75-27-4	Bramadichlarame	thane		12 10 1
	: 78-27-5	1,2-Dichloropro	pane		12 IU I
	10061-01-5	cis-1.3-Dichlor	.ab.cob.eus		-12 IU I
	1 75-01-6	Trichleroethene			12 IV
•	1 70-00-5	Dibromochlorome	thene		12 10 1
•	! 71-43-2				12 10 1
	10061-02-6	Benzene trans-1,3-Dichl	Greerenene	*	12 IU I
-	1 75-25-2	Bromaform		<u> </u>	12 IU I
,	106-10-1	4-Methy1-2-Pent	anone	Light and the contract of the contract	12: IU []
	1 591-78-6	2-Hexanone	• · · · · · · · · · · · · · · · · · · ·		12 U 1/1/X
-	127-18-4	Tetrachloraethe	ne		3 1J T
		1, 1, 2, 2-Tetrach Taluene			12 10 2H
· .	108-90-7	Chigrobenzene_			12 10
	1 100-41-4	Ethylbenzene			12 10 1
	1 100-42-5	Styrene <u></u>	<u> </u>	'	12 IU I
	1330-20-7	Xylene (total)_		!	12 10 1

TA VOLATILE CROANICS ANALYSIS DATA SHEET

.

EPA SAMPLE

ab Name:	ENVIROSYS	T <u>ems</u>	Contract:	48010094		CXW33RE
ad Cade:	<u> </u>	Case No.: 20101	SAS No. :		SDG	No. : CKWZO
estia: (sail/water) <u>SSIL</u>	L	.ab Sample	ID:	93060845
ample wt	/vol:	4 00 (g/mL) G				060845RT
evel:	(low/med)	LCM	t	Data Recei	ved:	09/05/13
Moistur	e not dec.	فنــ	ï	Date Analy:	zed:	06/11/93

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (c)

CAS NO.	COMPOUND	CONCENTRATI			. (3
74-87-3	Chicromethane		:	12	10	
74-93-9	3romome than e		•	12	ίŬ	
75-01-4	Vinyl Chloride		-	12	IÜ	
75-00-3	Chioroethane		-	12	LÜ	
75-09-2	Methylene Chloride		•	8	ĬĴ	
47-44-1	Acatons	• •	t	12	ĬŪ	
75-15-0	Carbon Disulfida_		- 1	12	ŧŪ	
75-35-4	i.i-Dichlorosthens		7	12	ΙŪ	
75-34-3	:, 1-Dichloros thans	· · · · · · · · · · · · · · · · · · ·	- 1	12	IU	
540-57-0	1. 2-Dichlorse thene	(total)	-	12	ŧυ	
47-44-3	Chlaroform			12	ŧŪ	
107-04-2	1.2-Dichlorsethane		•	12	i U·	
	2-3utanona			12	10	
71-55-5	1, 1, 1-Trichlorosth	203	•	12	_	
54-23-5	Carbon Tetrachlori	de	•	12	ĮŪ	
	Bromodichlorometha			12	ίŬ	
78-87-5	1. Z-Dichloropropan		• [12	IÜ	
10041-01-5-	cis-i. 3-Dichloropr	60 90 9	•	12	IU	
	Trichloroethene			12	iŭ	
124-43-1	Dibromochlorometha	RA ·	-	. 12	iŪ	
75-00-5	1,1,2-Trichloroeth	204	5-	12	IU	
	Benzane	411.5	• 1	12	iŪ	
10041-02-4-	trans-1,3-Dichloro	222222	• •	12	IÜ	
75-25-2	Bromoform	P. CP 2	• ;	12	ĮŪ	•
109-10-1	4-Methyl-2-Pentano	7.5	• •	12	ΙŪ	
591-78-4	2-Heranona	· · · · · · · · · · · · · · · · · · ·	• •	12	iŪ	
127-18-4	Tetrachloroethene		-;	2	ij	
78-24-5	1,1,2,2-Tetrachlor	2011222	• •	12	iυ	
109-29-7	Toluene	A4 011 411 4	• •	12	:0	
100-30-7	Chlorobenzana		-'	12	ŧŪ	
	Ethylbenzene			12	10.	
100-42-4	Styrene		•',	12	- 10	_
1220-20-2	Xylene (total)		-;	12	:0	7
1330-20-/			•!	• •	. •	$\boldsymbol{\lambda}$

VOLATILE ORGANICS ANALYSIS DATA SHEET

E.P.A	Samplie

CKW34 Contract: <u>48010084</u> Lab Code: ENVEYE | Case No.: 2010: SAS No.: EDG No. : CKWZO Lab Sample ID: Matrix (sdil/water) SCIL 93060846 060846 5.00 (g/mL) G Lab File ID: Sample wt/vol: Date Received: Level: (low/med) LOW Date Analyzed: % Moisture: not dec. ____ 06/11/93 Dilution Factor: GC Column: <u>RTX-502.2</u> ID: <u>0.530</u> (mm) (uL) Soil Aliquet Volume: Soil Extract Volume: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L ar ug/Kg) UG/KG G

	gradient was de la company de la company de la company de la company de la company de la company de la company		
-1-37-3	Chloromethane	11	10
, 443, 43-22-24 74-87-8		11	10
75-01-4	Vinyl Chloride		iŭ
75-01-4	Chicroethane	11	10
, 3-0()-3 74-08-3	Methylene Chloride	10	iJ.
/	Acetone	43	1
27-64-1 28-13-A	Canhon Diguitaida	11	ໍ່ເປ
75-75-4	Carbon. Disulfide		10
	1, 1-Dichlargethene		10
,;-::4-:: -:4 -: -	1,1-Dichloroethane	.	* -
			!U
67-66-3	Chloroform	_! 11	: U
	1. 2-Dichloroethane		10
78-73-3	2-Butanone		13J
71-55-6	1. 1. 1-Trichlorgethane	_1 11	IU
	Carbon Tetrachloride		IU ·
75-27-4	Sromodich Loromethane	_1	t U
78-87-5	1.2-Dichloropropane	_1	IU
^^ _ ^ _ ~			lU
79-01-6	Trichloroethene	_11	łV
LZ4-48-1	Bibromochloromethane	A North Library	Į U
79-00-5	1,1,2-Trichloroethana	-1	10
71-43-2	Beniene	11	Į U
しひひん しゃのコームーー	bosden1		ΙŪ
75-25-2	Bromoform	1 11	- 1U
LOS≠10-1	ーーー・4ー所さなない 1ーデードゥ ひなみたらりゅ		10
591-78-6	2-Hesanone	11	10
127-18-4	Tetrachloroethene	11	10
79-34-5	i, i, 2, 2-Tetrachloroethane	1	10
106-88-3	Taluene		10 1/
			iù 4
100-41-4	Ethylbenzene	11.	iŭ "
100-42-5	Styrene	11	10 2
	Xulene (total)	_ •	ij o

ià Collega analvete data emett

EPA SAMPLE

Lab Na	ime: <u>ENVIFCSY</u>	retend	Contract:	68010084		KH35
	** ***	Case No. : <u>20101</u>	GAS NA :		SDO NA	- C'' 130
F#8 C6	de: Giveria	Case No <u>POIOI</u>	388 HG		200 140.	. CAMEO
Matrix	: (scil/wats	r) <u>SOIL</u>	• •	Lab Sample	ID: 93	060847
Sample	wt/vol:	<u>5.00</u> (g/mL) <u>G</u>		Lab File I	D: <u>06</u>	0347
Level:	(low/med) LOW		Data Recei	ved: <u>06</u>	152793
% Mois	ture: not de	s, <u>51</u>	•	Data Analy	20d: <u>06</u>	/11/93
GC Col	umn: <u>27%-50</u> 2	. 2 ID: <u>0.530</u> (mm)	Dilution F	actor: _	1.0
Soil E	xtract Volum	ia:(UL)		Soil Aliqu	ot Volum	e:(
	,	•	CONCEN	ATRATION UN	ITS:	
	CAS NO.	COMPOUND		ar ug/Kg)		G
t	V 14.		er e	1		: :
	74-97-3	Chloromethane			13	iU i
i	74-53-7	3romomethane_		 :	13.	10 !
i i	72-01-4	Vingl Chloride	· · · · · · · · · · · · · · · · · · ·	 :	13	10 !
i	75-00-3	Chloroethane		 :	13 13	(U
•	47-54-1	Acatona	31.104	 ¦	13	Ü
	75-15-0	Carbon Disule:	da	' ;	13	
i	75-35-4	1,1-Dichloras	:hene		13	iŭ 🕥
	75-34-3	: 1-Dichloros	thane	 :	13	iŭ i
		1, 2-Dichloros			. 13	Ü
1	67-65-3	Chloroform			13	IU I
:	107-06-2	1, 2-Dichloroe	hane		13.	10 1
1	78-93-3	2-Butanone			13	IŪ I
ŀ	71-55-5	1, 1, 1-Trichlor	coethana		, 13	IÚ I
:		Carbon Tetraci		t	13	10 1
;	75-27-4	Bromodichloron	nethane	t	13	1U 1
	73-97-5	1, 2-Dichlorops	opane		13	1U :
:	10041-01-5-	cis-i.3-Dichle	roorogane		13	10 1
i	79-01-6	Trichlorosther	10	t	. 13	10 1
- 1	124-48-1	Dibromochlorom	rethane	;	13	1U 1
	79-00-5	1, 1, 2-Trichlan	oethane		13	10 1
•	71-43-2	Banzane		1	13.	IU !
1	10051-02-6-	trans-1.3-Dic	lloroproper	181	13	10 [
	75-25-2				13	10
i	108-10-1	4-Methul-2-Per	ntanone		13	10 1
1	391-78-6	2-Hexanone	·····	<u>-</u>	13	IU I
j	127-18-4	Tetrachlordeth) # n e	ĭ	13	10 1
	79-34-5	1,1,2,2-Tetrac	hloroethar	18	13	10
	102-32-3	Toluene		 !	13	in 408
	103-70-7	Chlorobenzene		 !	13	IU MA
. i	100-41-4	Ethylbenzene_		 [13 13	
- i	100-42-3	Styrene Xulene (total)	· · · · · · · · · · · · · · · · · · ·	 !	. 13	
ĭ		xulens (total)		i i	. IJ	

CK	나다리	35

	Lab N	ama: <u>ENVIROSYS</u>	75%S	Contract	68D10084		KW35RE
	Lab C	ade: ENVEYE	Case No.: 20101	SAS No.	; 	SDG No.	: CKMSO
• •	Matri	x: (sgil/water	; scil_		Lab Sample	ID: 93	060847
	Samp 1	• wt/vol:	5.00 (g/mL) G		Lab File 1	:D: <u>0</u>	08478
-	Level:	(law/med)	LOW	· · · · · · · · · · · · · · · · · · ·	Date Recei	ved: Qé	67 (73 1/62/93
	% Mois	sture: not dec	ــــــــــــــــــــــــــــــــــــــ		Date Analy	zed: <u>0</u> 6	/11/93
•	ec co	lumn: <u>RTX-502.</u>	2 ID: <u>0.530</u> (mm:)	Dilution F	actor: _	1.0
•	Soil E	Extract Volume	: (UL)		Soil Aliqu	ot Volum	ne:(u
· ·		CAS NO.	COMPOUND	• • • • • • •	NTRATION UN or ug/Kg)		Q
r		\$ '74-97-3	Chloromethane			13	10 1
		74-83-9	2 compone there			13	์ เบ้า
		75-01-4	Vinyl Chloride		1	13	
		75-00-3	Chloroethane_	TE ST	171	13	IŪ I
	;	75-09-2	Methylene Chic	ride	1	13	IÚ I
•	* * !	67-64-1	Acetone	<u>kiji te kiji di kiji di kiji di kiji di kiji di kiji di kiji di kiji di kiji di kiji di kiji di kiji di kiji d</u>		13	. 10 1
		75-15-0	Carbon Disulf:	lde		13	10 1
		75-35-4	1.1-Dichlaraet	thene	1	13	IU I
	i	75-34-3	1.1-Dichlorde1	thane		13	. 10 1
_	:	- 540-59-0	:,2-Dichlares	thene (tata	<u> </u>	13	10 ;
		67-66-3	Chloroform		!	13	10 1
_	* 1	107-06-2	1,2-Dichloroet	thane	1	13	10 1
į	74 1	.78-93-3	2-Butanone			13	IU I
•			1,1,1-Trichlor			13	10 1
			Carbon Tetraci			13	ĮŲ į
			Bramadichloron			13	IU I
	i		1, 2-Dichloropt			13	, 10
	· ' ' i	:10061-01-5	cis-1,3-Dichle	ropropene	!	13	10
	i	79-01-6	Trichlaraether	٠٠		13	:0
			Dibromochlorom			13	10 1
			1,1,2-Trichlor			13	10
	San Artife	10041-03-4	Benzene	100000		13	;U !
•		74-25-2		. To Lab Lob &:	,	13	iu
		100-10-1	4-Methul-2-Per			13	•
		106-10-1	2-Hexanone		 !	13	!U !
_		127-18-4	Tetrachlorgeth	1000		13	مراد ال
			1, 1, 2, 2-Tetrac			13	TIV 409
•	!	102-59-7	Tolvene		······································	13	الله الله
			Chlorobenzene			13	ול ב
1			Ethylbenzene_			13	10 751
Ų	•	100-42-5	Styrene	e jer e e je		13	U AY
		1330-20-7	Xylene (total)		N A STATE OF THE S	13	Ü
	1	<u> </u>	<u> </u>		ī	* <u>*</u>	

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IA. VOLATILE CRGANICS ANALYSIS DATA SHEET

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E?A	SAMPLE	:
		_
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• •	i ckija
Las Name: ENVIROSYSTEMS Cont	ract: <u>55010084</u>
Lao Code: <u>ENVSYS</u> Case No.: <u>20101</u> SAS	No.: SDG No.: CXWZO
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: <u>93060861</u>
Sample ut/vol: <u>5.00</u> (g/mL) <u>G</u>	Lab File ID: 06086187
Lavel: (low/med) LOW	Date Received: 06/03/93
% Moisture: not dec. <u>24</u>	Date Analyzed: 06/13/93
GC Column: ATX-502.2 ID: 0.530 (mm)	Dilution Factor:1.0
Sail Extract Volume: (uL)	Soil Aliquet Volume:(L
c	ONCENTRATION UNITS:
	ug/L or ug/Kg) <u>UG/KG</u> Q
: 74-97-3Chiaromethane	13 (0
1 74-33-4	13 10
: 73-01-4Vinyl Chicride	I 13 IU I
: 75-00-3Chloroethane	13 10 1
1 75-09-2Mathulane Chloride_	120 '
67-64-1Acetone	1 90 IB U
: 75-15-0Carbon Disulfide	I 13 IU I
1 75-35-4	! 13 IV
73-34-3	13 U
: 540-57-0	(tatal)! 13 !U
67-66-3Chloroform 107-06-21,2-Dichloroethane_	: 13 U : 13 U
: 73-93-32-Sutanone	13 10 1
71-55-6	ne 13 lU
: 54-23-5Carbon Tetrachlorid	. 13 IU
: 75-27-4Bromodichloromethan	13 IU I
: 78-87-5	13 10 1
: 10061-01-5cis-1.3-Dichloropro	pana! 13 !U !
: 79-01-4Trichloroethene	13 10 1
: 124-43-1Dibromochloromethan	•; 13 iU !
i 77-00-5:, 1, 2-Trichloroatha	na 13 U
71-43-2	13 !U
10061-02-6trans-1,3-Dichlorop	ropene 13 IU
75-25-2	13 10
193-19-1	13 10
: 591-78-6	13 IU W/XA
77-34-5	ethane 13 IU 2/10
: 109-39-3Toluene	
: 108-90-7Chlorobenzene	is iv a n
# 100-41-4Ethylbenzene	13 10
100-42-5Styrene	1 13 10
: 1330-20-7Xylene (total)	13 10

VOLATILE ORGANICS ANALYSIS DATA SHEET

Contract: 420:0084 Lab Name: ENVIRCEYSTEMS Lab Cade: ENVSYS Case No.: 2010: SAS No. 5 SDG No.: CXW20 Lab Sample ID: 93040862 Metrix: (soil/water) SCIL Sample wt/vol: 5.00 (g/mL) 6. Lab File ID: 0408428 Date Received: 06/05/93 Level: (Iow/med) LOW___ Date Analyzed: <u>06/13/93</u> % Moisture: nat dec. __1& GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0 Soil Extract Volume: _____(uL) ______(uL) _____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND		CONCENTRATION UNI	(ug/L or ug/Kg) <u>UG/KG</u>		Q
: 74-67-7	Chicromethane		12	10	:
: /4-5/-3 : /!-6/-3	Bromomethane_			:0	i
. 75-01-1	Vingl Chlorid		12	10	i .
	Chiorcethane_		12	IU	
			54	io	i
; /J-07-1	Methylene Chi	GT168	· . · ·	173	i
:	AcetoneCarbon Disulf		13 12	1B	i i
	1.1-Dichlorde		12	IU	•
	1.1-Dichlorae			Į U	i.
; 360-37-3	1.2-Dichlorge	eusus (£0291)	12	10	•
:	Chloroform		12	: 0	•
	1, 2-Dichlores		. 12		i
; /g-73-3	2-Butanone		15	B	i
71-53-6	1.1.1-Trichlo	roetnane	12	lU	i ·
76-23-3	Carbon Tetrac	niorice	12	ĮU	i
	Bromodichlore		12	10	
	1,2-Dichlorop		12	;U	
	cis-1.3-Dichl		12		į
	Trichloroethe		12	IU	
124-48-1	Dibromechlore	nethane	12	, iu	I
79-00-5	1,1,2-Trichlo	roethaneP	12	. :0	i i
71-43-2	Benzane	was a second of the second of	12	: U	1
10061-02-6	trans-1.3-Dic	hloropropene!	12	10	1
	Bromoform		12] : U	ŧ
108-10-1	4-Methy1-2-Pe:	ntanone <u>r i de la co</u> loria de la coloria de	12	. 10	1
591-78-6	2-Hexanone		12	, tU	ŧ
127-18-4	Tetrachlorget	hene	12] IU	والمر
79-34-5	1,1,2,2-Tetra	chlorcethane	12	· :U	LIN
108-88-3	Toluene		12	, 1 U	7.1
108-90-7	Chlorobenzene	en la granda de la companya de la companya de la companya de la companya de la companya de la companya de la c	12	្តរប	٠ - ا
100-41-4	Sthulbenzene	The second secon	12	!U	747
100-42-5	Sturene		12	ÌŪ	OY
1330-20-7	Xulene (total	No mark to the second of the second	12	ΙU	ì

ACCULTES SKAMICS WHACESTS	DAIM SEES!
Lab Name: ENVIROSYSTEMS	Contract: 68010084 CXW40
Las Code: ENVSYS Case No.: 20101	SAS No.: SDG No.: CKW20
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: 93060863
Sample wt/vol: 5.00 (g/mL) G	
Level: (low/med) LOW	Date Received: 06/23/93
% Moisture: not dec. <u>15</u>	Date Analyzed: 06/13/93
GC Calumn: RTX+502.2 IS: 0.530 (mm)	Dilution Factor: 1.0

Soil Extract Volume: Sail Aliquot Volume: _

_	CONCENTRATION UNITS:			
Cas NC.	COMPOUND	(uġ/L or u̞g/Kg) !	UG/KG	Q
74-27-7	Chloromethane_		12	· t
74-97-9	Bromomethane		12	iŬ
73-01-4	Vinyl Chlorida_	· · · · · · · · · · · · · · · · · · ·	12	iŬ
75-00-3	Chloroethane		12	iŭ
75-09-2	Methylene Chlor:		29	1
57-54-1	Acetone		24	in t
75-15-0	Carbon Disulfida		12	iū `
73-33-4	1, 1-Dichlarosth	32	12	ำับ
75-34-3	1,1-Dichlargeth;		12	ŧΰ
540-59-0	1, 2-Dichlorosth	ne (total)	12	iŭ
47-44-3	Chloroform		12	ΙŬ
107-04-2	1, 2-Dichlorosth:		12	lu
79-97-7	2-Butanone		24	13
71-33-4	1,1,1-Trichloro	than '	12	ΙŪ
54-27-3	Carbon Tetrachl		12	iŭ
75-23- <i>3</i>	3romodich lorome	** * * * * * * * * * * * * * * * * * *	12	10
	1, 2-Dichloropro		12	iŭ
10061-01-5-			12	Ü
78-01-61-3	cis-1,3-Dichlore	propers	12	10
174-42-1	Dibromachlarame	<u> </u>	12	IU.
78-00-3	1, 1, 2-Trichlore		12	יט
71-42-3	36uraus	· ·	12	10
10041-03-4	trans-1,3-Dichlo	· · · · · · · · · · · · · · · · · · ·	12	iu
73-33-3	3romoform	ropropene		טו
/ J-KJ-K-4			12	
rodainaide.	4-Methyl-2-Penta	nonei	12	!U
771~/G-0~~~	2-Hexanone	<u> </u>	12	10
127-13-4	Tetrachloroether		12	ַ יַּט
/7-34-5	1, 1, 2, 2-Tetrach!	ioroethanei	12	10
103-83-3	Toluene		12	:U Ł
103-70-7	Chlorobensene		12	:0 5
100-41-4	Ethylbenzene		12	10
100-42-5	Styrene		12	10 7
1330-20-7	Xylene (total)_	<u> </u>	12	:U /

VOLATILE ORGANICS ANALYSIS DATA SHEET

EFA	SAMPLE	•
-	1	

• *		ata escuela de la comoción			CXW41
Lab	Name: ENVIROSYSTEM	<u> </u>	Contract debi	0084	
ال العام (Code: ENVSYS Ca	se No. : 20101	SAS No.:	SDG (Na .: CKWZO
Matr	ix: (sgil/water) §	<u>sil</u>	Leb 5	iample ID:	93060864
Samp	le wt/vol:	5.00 (g/mL) G	_ Lab F	ile ID:	060864
Leve	1: (low/med) (Date	Received:	06/04/93
% Ms	isture: not dec	15	Date	Analyzed:	06/12/93
ec c	clumn: <u>RTX-502.2</u>	ID: <u>0,530</u> (mm)	Dilut	ion Factor	:1.0
Soil	Extract Volume:	(UL)	Scil	Aliquot Vo	lume:(
	CAS NO.	COMPOUND	CONCENTRATI	ON UNITS: /Kg) <u>UG/K</u> G	G
	74-27-3	-Chloromethane_	and the second s	Land Administration to	12 (U
	74-23-9			- ·	
	: 75-01-4	-Vinyl Chloride		The same of the same	
	1 75-00-3	-Chloroethane		A Company	12 U
	: 75-09-2	-Methylene Chia	ride <u>e e la Selement</u>	1 - 3 3 18	CO IÉ I
	: 67-64-1				
· /	75-15-0				
•	: 75-35-4	-1.1-Dichlaraet	hene		12 10 1
	75-34-3	-1.1-Dichloroet	yeus		12 10
	340-59-0	-1.2-Dichloroet	hene (total)		12 10 1
	67-66-3	-Chieroferm	*	the second second second	12: IU
•	1 107-06-2				
	78-73-3	-2-Sutanone -1,1,1-Trichlor			## :
*	: 56-23-5 : 75-27-4	nobrami neurach	athana		12 10
	78-87-5	-1. 2-Dickinson	00404		12: 10
	10061-01-5	i qui vana a co	744114	1 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12:10
	79-01-6		a a transmission of the second		11 J
	124-48-1	-Dibromachlaram	ethane	and the second s	12 10
•	179-00-5	-1,1,2-Trichlor	cethane/-	ے۔ اگرین کی ایک میں کی جسوراؤ	12 10
	71-43-2	-Banzene	sys ^{te of} a transfer of	The second of th	e lj l
	10061-02-6	-trans-1.3-Dich	largeragene		12 10
• .	1 75-25-2	-2romoform			12 10 1
•	1.08-10-1		*	•	10 . 111

11

: [U : [U : [U

-Xylene (total)

VOLATILE ERGANICS ANALYSIS DATA SHEET

Las Coda: ENVSYS Casa No.: 20101 SAS No.:

Lab Name: <u>ENVIROSYSTEMS</u>

Matrix: (soil/water) SCIL

Level: (low/med) LCW

Sample ut/vol: 5.00 (g/mL) G

a Analye I	S DATA SHEET	•		EPA	SAMPLE
-	Contract: <u>48</u>	010034		CXI	141RF
20101	SAS No. :		SDG	No.:	CKM50
	Lab	Sample	ID:	9306	50864
nL) <u>G</u>	Lab	File I	D:	0408	649
	Dat	e Recei	ved:	96/2	2793
	Dat	a Analu	tad.	04/1	7/97

% Moisture: not dec. 13 Data Analyzed:

GC Calumn: <u>RTX-502.2</u> ID: <u>0.530</u> (mm) Dilution Factor:

Soil Aliquat Valume: _ Soil Extract Volume: _____ (uL)

CAS NO.	CCMPCUND	CONCENTRA (ug/L or			Q	
74-97-3	Chioromethane			12	 U-	_; ;
74-53-9	granome than e			12	IU	ł
75-01-4	Vinyl Chloride_		:	12	!JU	ŧ
78-88-9		.1		12	IU	ŀ
75-09-2	Methulene Chlor	ide		240	1	
67-64-1	Acetone			25	18	4
75-15-0	Carbon Disulfid	•		12	IU	;
75-35-4	:.i-Dichlorosth	ene		12	:U	1
75-34-3	:.i-Bichlorosth	ane	ŧ	12	:U	1
540-59-0	i, 2-Dichlorosth	ene (total)	;	12	;U	;
67-55-3	Chlaroform		;	12	!U	:
107-04-2	:.2-Dichloroeth	ane	}	. 12	ŧυ ,	1
73-93-3	Z-Butanone	21	:	15	13	1
71-55-6	i.i.i-Trichloro	ethane	1	12	IU	ł
56-23-5	Carbon Tetrachl	oride	;	12	:U	ł
75-27-4	Bromodichlorome	thane	;	12	1U	1
	1, 2-Dichloropro			12	:U	ŧ
10061-01-5-	cis-1.3-Dichlor	COTCOENE		12	ťU	ł
79-01-4	Trichloroethene			9	IJ	ł
124-43-1	Sibromochlarome	thane &		12	IU	1
79-00-5	1, 1, 2-Trichloro	ethane		12	:U	t
71-43-2	Benzane		;	. 5	IJ	;
10041-02-6-	Benzane trans-1, 3-Dichl	000000000		12	IU	
75-25-2	3romoform 4-Mathyl-2-Pent		,	12	טו	1
108-10-1	4-Mathul-2-Pent	anone		12	ťU	1
591-78-6	2-Hexanone		i	. 12	IU	1
127-19-4	2-Hexanone Tetrachlorosthe	n e		7	IJ	:
79-34-5	1, 1, 2, 2-Tatrach	lorosthans	1	12	IU	:
108-38-3	Toluane			3	ij	
108-70-7	Chlorobenzena		— ;	. 12	10 2	4
100-41-4	Ethylbenzene	······································		12	10 7	1
100-42-5	5:41:00			12	IU /	a 2
1220-20-7	Xulana (total)	 	 ;	12	iu /	٨í

EPA SAMPLE : VCLATILE ORGANICS ANALYSIS DATA SHEET CKW43 Lab Name: ENVIRGEYSTEMS ___ Contract: <u>68D1008</u>4 Case No.: 20101 SAS No.: EDG No.: CKW20 Lab Cada: ENVSYS Lab Sample ID: Matrix: (soil/water) SOIL 93060849 5.00 (g/mL) G Lab File ID: 060849R Sample wt/vol: Date Received: 06/03/93 Level: (low/med) LCU Date Analyzed: 06/13/93 % Moisture: not dec. __15 GC Celumn: <u>RTX-502.2</u> ID: <u>0.530</u> (mm) Dilution Factor: Soil Aliquet Volume: ____(L _____(UL) ··· Soil Extract Volume: CONCENTRATION UNITS: COMPOUND Œ CAS NO. (ug/L or ug/Kg) <u>UG/KG</u> 74-87-2-----Chicromethane__ lU 12 12 10 : 75-01-4-----Vinyl Chloride_____ 12 :U 75-00-3-----Chloroethane__ 12 IU 75-09-2-----methylene Chloride___ 8 IJ : 67-64-1-----Acetone_ 11 IBJ 75-15-0-----Carbon Disulfide_ . 12 IU 12 10 : 75-34-3------1, 1-Dichloroe thene____ 12 10 12 IU : 67-26-3-----Chicreform____ 12 IU 12 10 : 107-06-2-----1, 2-Dichlorcethane__ 78-93-3-----2-Butanone__ 27 13 | 71-55-6-----1, 1, 1-Trichloroethane__ 12 56-23-5----Carbon Tetrachloride__ 12 IU 1 75-27-4-----Bromodichlaromethane___ 12 IU . .12 1 78-87-5-----1, 2-Dichloropropane____ 10 ! 10061-01-5----cis-1,3-Dichloropropene__ 12 lU 1 79-01-6----Trichloroethene_ 12 IU 12 124-48-1-----Dibromochloromethane 10 12 IU 79-00-5-----1, 1, 2-Trichloroethane_ 12 IU 1 71-43-2------Benzene_-----12 10 | 10061-02-6----trans-1,3-Dichloropropene__ 1 75-25-2-----Bromsform 12 IU 1 108-10-1----4-Methyl-2-Fentanone___ 12 IU | 591-78-6----2-Hexanche____ 12 10 12 127-18-4----Tetrachlorcethene IU 1 79-34-5-----1, 1, 2, 2-Tetrachlorcethane_ 12 10 12 :U | 108-58-3-----Taluene____ 1 108-90-7-----Chiorobenzene ___ 12 1U 12 10 : 100-41-4-----Ethylbenzene

FORM I VOA

| 1330-20-7----Xylene (total)___

12

12

10

IU

VOLATILE ORGANICS ANALYSIS DATA SHEET CKW18 Lab Name: ENVIROSYSTEMS Contract: 68010084 Lab Code: ENVEYS Case No.: 20101 SAS No.: ____ SDG No.: CKW36 Matrix: (soil/water) SCIL Lab Sample ID: **93060374** Lab File ID: 060874 Sample wt/vol: Level: (low/med) LCW . Date Received: 06/04/93 Date Analyzed: % Moisture: not dec. __40 . 06/13/93 GC Column: <u>RTX-502.2</u> ID: <u>0.930</u> (mm) Dilution Factor: _____1.0 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____(CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND 1 : 74-37-3-----Chloromethane_ 10 17 :U 17 : 75-6:-4-----Vinyl Chloride_____ 17 10 75-00-3-----Chlarosthans_____ 17 IU : 75-09-2-----Methylane Chlorida__ 18 Ī : 67-64-1-----Acetone____ 51 13 : 75-15-C-----Carbon Disulfide_ 4 IJ 17 IU : 75-34-3------1,1-Dichlorosthans___ 17 : U : 540-57-0-----:, 2-Dichloros thens (total)___ 17 IU i 47-44-3-----Chicroform____ 17 : U : 107-04-2-----1, 2-Dichlorosthane_ 17 IU. : 78-93-3-----2-Butanone____ 32 13 i·71-55-4-----1, 1, 1-Trichloroethane____ 17 10 : 56-23-5-----Carbon Tetrachloride_____! 17 IU 75-27-4----Bromodichloromethane____ 17 IU : 73-37-5-----1.2-Dichloropropane____ IU 17 : 10061-01-5----cis-1.3-Dichlorograpens____ 17 1U : 77-01-4----Trichloroethene... 17 10 | 124-42-1-----Dibromochloromethana_ 17 10 : 79-00-5-----1, 1, 2-Trichloroethans____ 17 IU : 71-43-2-----Banzane____ 17 10

1 10061-02-6----trans-1, 3-Dichloropropene

: 108-10-1-----4-Methyl-2-Pentanone_____

: 79-34-5-----1, 1, 2, 2-Tetrachloroethane____

108-70-7-----Chiorobenzene

: 75-25-2-----aromoform_

: 591-78-6-----2-Hexanone____

108-38-3----Toluene____

1 127-18-4----Tetrachloroethene_

: 100-41-4----Ethylbenzene_____ 17 : U | 100-42-5----Styrane___ 10 17 | 1330-20-7----Xylene (total)____ 17 IU

17

17

17

. 17

17

17

7

3

IU

IU

IU

IU

IU

10

1 1

IJ

Contract: 68D10084 Lab Name: ENVIROSYSTEMS

SAS No.: _____ SDG No.: CKW36

Matrix: (soil/water) SOIL

Lab Sample ID: 93060874

<u>5.0</u> (g/mL) <u>G</u>

Sample wt/vol:

Lab File ID: 060874R

Lavel: (low/med) <u>LOW</u>

Date Received: 06/04/93

% Moisture: not dec. 40

Date Analyzed: 06/14/93

Dilution Factor: _____1.0

Soil Extract Volume: _____ (uL)

GC Calumn: <u>RTX-502.2</u> ID: <u>0.530</u> (mm)

_ab Code: ENVSYS Case No.: 20101 .

Soil Aliquot Volume: ____(u

CAS NO.	COMPOUND	CONCENTRA (ug/L or		· · - · - ·	œ.
71-07-5	Chloromethane_			17	1
/c/-3 /			 ¦	17	
/4-23 7 5- /\\	Bromomethane_ Vinyl Chloride	· · · · · · · · · · · · · · · · · · ·		17	
75-01-4	Chiarcethane		;	17	• -
73-09-3 73-09-2	Methylene Chic	mida	 ;	16	•
,				78	18
79-15-0	AcetoneCarbon Disulfi	40	 ;	17	10
				17 17	–
/ TE_0/			 ¦	17.	
,	1, 1-Dichlarcet 1, 1-Dichlorcet 1, 2-Dichlorcet	nent		17	10
540-57 -0 47-44-3	:, 2-Dichlorce t	nene (total)		17	10
:/-00-3 :/0/-0	Chloroform	<u> </u>			
10/70072	1.2-Dichlorest 2-3utanone	nene	:	17	: IU
/8-73-3			 :	45	18
/1-33-6	1.1.1-Trichlor	.cernane		17	\$ T.E.
76-23-5	Carbon Tetrach	loride	 !	17	10
75-27-4	Bromodichlorom	se than e	!	17	10
78-87-5	1.2-Dichlorepr	.obaus	!	17	10
10061-01-5	cis-1.3-Dichlo	ropropene	!	17	
79-01-6	Trichlaraetheπ	1 C		17	•
124-46-1	cis-1.3-DichloTrichloroethenDibromochlorom	ethane	!	17	10
/ 7 ={)()= 3 ====		PARTARA	· •	17	1 U
71-43-2	Benzane			17	10
10061-02-5	Senzene trans-1.3-Dich	loropropene_	1	17	. t U
75-25-2	m_notemore			17	10
05-10-1	3romoform 4-Methy1-2-Pen	tanon's		17	10
391-78-6 -	2-Hexanone	7		17	. I U
L 27-18-4	Tetrachlorgeth	ene		17	. IU
79-34-5	1, 1, 2, 2-Tetrac	hloroethene_	{	17	I U
105-88-3	Toluene				IJ
L02-90-7	Chlorobenzene	was misself		. 19	1 .
		/ h. h. i		17	iu k
100-42-5	Styrene	W S C S S S S S S S S S S S S S S S S S		.17	Ü
330-20-7	Xylene (total)	and the second s		17	בי טו

1A VCLATILE CRGANICS ANALYSIS DATA SHEET.

EPA SAMPLE N

CKW19

Lab Name: ENVIROSYSTEMS Contract: 68010084 [______ SDG No.: CKW36

LIB Cods: 500373 Cass No.: Solot SAS No.: 500 No.: GAWGO

Matrix: (soil/water) SOIL Lab Sample ID: 93060975

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 060875

Lavel: (low/med) LCW Date Received: 06/04/93

% Moisture: not dec. 46 Date Analyzed: 06/13/93

GC Column: <u>RTX-502.2</u> ID: <u>0.530</u> (mm) Dilution Factor: <u>1.0</u>

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(u

CAS NO.	COMPOUND		RATION U r ug/kg)	· · • · · .	G	
74-97-3	Chloromethane_		1	19	1 1U	
74-33-9	3romomethane		;	19	ίŪ	
75-01-4	Vinyl Chloride_		i	19	iŪ	
75-00-2	Cnicrosthans		 ;	19	iŭ	•
75-07-2	Methylene Chlor	ide	——;	19	ίŬ	
47-44-1	Acetone		 ;	63	B	
75-15-0	Carbon Disulfid	8		19	ΙŪ	١
75-35-4	1, 1-Dichloroeth	97.9		19	ĬŬ	
	1, i-Dichlorosth			19	10	
· • - · . •	i, 2-Dichlorosth			19	ĮŪ	
	Chloroform			19	IU .	
107-04-2	1. 2-Dichlorosth	ane		19	ŧυ	
	Z-Butanone			41	13	
71-55-4	1.1.1-Trichloro	ethane		19	IU	
56-23-5	Carbon Tetrachl	oride		19	IÜ	
	Bromodichlorome			19	ŧŪ	
	1, 2-Dichloropro			19	IU	
10041-01-5-	cis-1,3-Dichlor	optopene		19	IÜ	
79-01-4	Trichloroethene			19	10	
124-49-1	Dibromachlorome	thane		19	ŧυ	
79-00-5	1,1,2-Trichlaro	athane'		19	IU	
71-43-2	3enzene			19	10	•
10041-02-4-	trans-1, 3-Dich1	Gropropene		19	10	
	Bremoferm			19	10	
L08-10-1 -	4-Methul-2-Pent	anone ·	ŧ	19	ĮŪ	
591-78-6 -	2-Hexanone		1	. 19	IU	
l 27-18-4- -	Tetrachloroethe	ne	1	19	1 🖯	
79-34-5	1, 1, 2, 2-Tetrach	loroethane		19	IŪ	
108-58-3	Toluene			5	1 J	
108-70-7	Chlorobenzana		- 1	17	IU	И
100-41-4	Ethylbenzene			19	I U	4
100-42-5	Styrene			19	IU	•
1330-20-7	Xylene (total)_			19	IU :	~

Contract: 65D10084 Lab Name: <u>ENVIROSYSTEMS</u> Casa No.: 20101 SAS No.: SDG No.: CKW36 Lab Code: <u>ENVSYS</u> Lat Sample ID: Matrix: (soil/water) SCIL 93060875 Lab File ID: Sample wt/vol: ___5.0 (g/mL) <u>G</u>__ ·061875Z Date Received: 06/04/93 Level: (low/med) LOW_ Date Analyzed: 06/17/93 % Moisture: not dec. __44 GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0 Sail Extract Volume: ____ (uL) Soil Aliquot Volume: ____

CAS NO.	CCMFGUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>Ug/Kg</u>	· G
			1
74-87-3	Chloromethane	1	7 10
	Bromomethane		7 IU.
ブラ ー のモーユーー・	Vinul Chlorida	1	9 10
75-00-3	Chicroethane	1	9 10
75-09-2	Methylene Chlo	ride	7 IU
67-64-1	Acetone	1 19	7 10
75-15-0	Carbon Disulf:	de! 15	9 10
75-35-4	1,1-Dichloroet	:hene1	7 10
75-34-3	1,1-Dichlorae	hanel 19	7 10
540-39-0	1, 2-Dichlorset	hene (total)i	9 10
		1	7 10
107-06-2	1, 2-Dichloroet	hanel	7 40
		11	7 10
71-55-6	1, 1, 1-Trichlot	cethane	9 10
54-23-5	Carbon Tetraci	loridetunu upon 15	7 IU
75-27-4	Bromodichlored	nethanei	
78-87-5	1,2-Dichlorop1	opanei19	7 10
10061-01-5	:cis-1,3-Dichle	ropropeneI desperant	
79-01-6	Trichloroether	14 <u>6 - Paris de La Jacobson de 1</u> 4 ₀₀ de la 2000 de 14	7 10
124-48-1	Dıtromochlaron	retname i 1	
79-00-5	1.1.2-Trichlor	cethanei1	7 IU
71-43-2		<u> </u>	9 !U
10061-02-6	trans-1, 3-51c)	laraaraane :	9 IU
75-25-2	Bromoform	1	9. IU
108-10-1	4-Methyl-2-Pet	itanonei	9 IU
591-78-6	2-Hexanone	1.	9 IU
127-18-4	Tetrachloroeti	enel	9 IU
79-34-5		hlanaathana . I	7 (IU
E-88-30	Toluene	2	1
			9 : IU
LOO-41-4	Ethylbenzene_	The second secon	7 / [IU
100-42-5	Styrene	And the Brown of the Control of the	9 - 1U -
1330-20-7-	Xulene (total)	A STATE OF THE STA	9 10 .

EPA SAMPLE N

CKW25 Lab Name: ENVIROSYSTEMS Contract: 68010084 Lab Code: ENVEYS Case No.: 2010: SAS No.: ____ SDG No.: CKW36 Lab Sample ID: Matrix: (soil/water) SOIL 93060876 Sample ut/vol: 5.0 (g/mL) G Lab File ID: 060876 Date Received: 06/04/93 Laval: (low/mad) <u>LOW ____</u> Date Analuzed: 06/13/93 % Maisture: not dec. ____11 GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: ____(u Soil Extract Volume: _____ (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> CAS NO. COMPOUND ١U 11 11 : U | 75-01-4-----Vinul Chloride____ 11 IU 1 75-00-3----Chlorosthans____ 11 រប : 75-09-2----Methylene Chloride____ 11 IU : 67-64-1------Acetone 11 IU : 75-15-0-----Carbon Disulfide_ 11 IU 11 10 : 75-34-3-----1, i-Dichloros thans_ 11 IU 11 IU 11 10 11 10 1 78-93-3------2-Butanone__ 14 13 . : 71-55-4-----1, 1, 1-Trichloroethane__ 11 IU : 54-23-5----Carbon Tetrachloride 11 IU 1 75-27-4-----Bromodichloromethane 11 IU 1 78-87-5-----1, 2-Dichloropropana___ 11 IU 1 10061-01-5----cis-1.3-Dichloropropene___ 11 10 : 79-01-4-----Trichloroethene_____ 11. IU : 124-48-1-----Gisromschioromethane_ 11 1U 11 10 : 71-43-2-----2ensene_ 11 IU 11 : 10061-02-6----trans-1,3-Dichloroprogene 10 11 IU : 108-10-1-----4-Mathyl-2-Pentanone____ 11 10 : 591-78-6----2-Hexanone____ 11 1U | 127-18-4----Tetrachloroethene_ 11 10 1 79-34-5-----1, 1, 2, 2-Tetrachloroethane 11 IU 108-88-3----Toluene 11 10 1 108-90-7-----Chlorobensene 11 10 11 100-41-4-----Ethylbenzene____ 11 10 | 100-42-5----Styrene____ IU 41

FORM I VOA AROOO274

1 1330-20-7-----Xylene (tstal)

11 !U

Lab N	Name: <u>ENVIROSYS</u> T	EMS	Contract: <u>68</u> 1	10084	CKM39
ULab (Code: ENVSYS	Case No. : 20101	SAS No.:		Ne.: <u>CKW36</u>
Metri	lx: (soil/water)	SOIL	Lab	Sample ID:	93060848
Sampl	le wt/vol:	5.0 (g/mL) G	Lab	File ID:	060848
Level	(low/med)	rom	Date	Received:	06/03/93
% Moi	sture: not dec.	10	Date	Analyzed:	06/11/93
GC C a	lumn: <u>RTX-502.2</u>	ID: <u>0.530</u> (mm) Dilu	ition Factor	:1.0
Soil	Extract Volume:	(uL)	Soil	Aliquot Vo	lume:(
\$ 	CAS NO.	COMPOUND		TION UNITS: pg/kg) <u>ug/kg</u>	Q.
	74-57-3	Chloromethane	<u>.</u>	Land of the Control	11 10 1
	74-83-9	Bromomethane_	· · · · · · · · · · · · · · · · · · ·	- i	
	75-01-4	Viny! Chlorid	<u> </u>		11 IU I
	75-00-3	Chisrosthane_			11 10 1
	75-09-2	Methylene Chl	oride	—;	
	1 67-64-1	Acetone		 -	11 10
	: 75-15-0	Carbon Disule	ide .		11 IU I
	1 75-35-4	1,1-Dichloroe	thene		11 IU I
	1 75-34-3	1.1-Dichloroe	thane		
1	1 540-59-0	1, 2-Dichloroe	thene (total)	- ;	11 10 1
	1 47-44-3	Chiereform			11 IU I
	1 107-04-2	1, 2-Dichloroe	thane		
è	! 78-93-3	2-Sutanone	,	<u> </u>	11 10
	1 71-55-4	1,1,1-Trichlo	roethane	The second of th	11 IU I
**	! 54-23-5	Carbon Tetrac	hloride	-	11 10 1
	· · · · · · · · · · · · · · · · · · ·	Bramodichloro			TT 1
	78-97-5	1.2-Dichlorap	rosane		
		cis-i.3-Dichl			
;	79-01-4	Trichloroethe	ne ·		11 IU I
,	124-48-1	Dibremochlore	methane .		11 10 1
	79-00-5	1,1,2-Trichlo	roethené		11 10
	71-43-2	Benzena			ii iu
	10061-02-4	trans-1,3-Dic	hloropronene		11 IU I
	75-25-2	Bromoform			
	1 108-10-1	4-Me thy 1-2-Per	ntanope		11 10 1
	591-78-4	— π ne vny a πετεία. Σομογαποπο		Land Representation of the Control o	11
·	1 127-18-4		hene	— <u>'</u>	11: 10
	.79-34-5	1, 1, 2, 2-Tetra	chlorgethane		11: 10
	108-88-3	Taluene			
,	1 108-90-7	Chlorobenzene	A STATE OF THE STA		11 10
S. 🛶 🗀	1 100-41-4		Same and the second second second second second second second second second second second second second second		ii iu un
. <i>)"</i> ·	1 100-42-5	Ethÿlbenzene_ Styrene_			
$\mathcal{L}_{\mathcal{L}}$! 1330-20-7			- '	11 111 767
14.7	1330-20-/	Xylene (total	<u> </u>	· · · · · · · · · · · · · · · · · · ·	** !']{/

VELATILE ERGANICS ANALYSIS DATA SHEET

	CKNDZ
Lab Name: ENVIROSYSTEMS Contrac	t: 63010084
Lab Code: ENVSYS Case No.: 20101 SAS No	.: SDG No.: CKW3
Matrix: (soil/water) SGIL	Lab Sample ID: 93060877
•	•
Sample wt/vol:	Lab File ID: 060877
Level: (low/med) <u>LOW</u>	Date Received: 06/04/93
% Moisture: not dec. <u>18</u>	Date Analyzed: <u>06/13/93</u>
GC Column: ATX-502, 2 ID: 0.530 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquet Volume:(
CONC	ENTRATION UNITS:
	L or ug/Kg) <u>UG/KG</u> G
: 74-97-3Chloromethane	
: 74-83-9	i 12 iU i
: 75-01-4Vinyl Chlorida	
: 75-00-3Chloroethana	i 12 (U)
: 75-09-2Methylene Chloride	130
67-64-1Acetone	11500 - IBE
: 75-13-0Carbon Disulfide	
: 75-35-41,1-Dichloroethene	
: 75-34-31,1-Dichloroethane	12 U
! 540-59-0	tal)! 12 U
1 67-66-3Chloroform	1 12 10 1
: 107-06-21, 2-Dichloroethane	12 10
78-93-32-Butanone	210 IB
1-71-55-61, 1, 1-Trichlorosthans_	
: 56-23-5Carbon Tetrachloride	
: 75-27-4 Promodichloromethane	
1 78-87-51, 2-Dichloropropana	12 U
1 10061-01-3cis-1.3-Dichloropropen	12 10
79-01-6Trichloroethene	12 10
1 124-48-1Dibromochloromethane	12 10
79-00-51,1,2-Trichlorosthane	12 0
1 71-43-2	12 0
: 10061-02-6trans-1.3-Dichloroprop	ene! 12 U
1 75-25-2Brompform	12 10
1 109-10-14-Methyl-2-Pentanone	12 10
591-78-42-Hexanone 127-18-4Tetrachloroethene	12 10
1 77-34-51, 1, 2, 2-Tetrachloroeth	
1 /7-34-3	
1 108-99-7Chlorobenzene	37
i ind-An-\	11

EPA SAMPLE

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CKW37DL Contract: 68D100E4 Lab Name: ENVIROSYSTEMS Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: <u>CKW36</u> Lab Sample ID: 93060877 Matrix: (soil/water) SOIL ' Lab File ID: 060877D Sample wt/vol: 1.0 (g/mL) <u>G</u> Date Received: 06/04/93 Level: (low/med) Date Analyzed: <u>06/29/93</u> % Moisture: not dec. Dilution Factor: GC Calumn: <u>RTX-502, 2</u> ID: <u>0.530</u> (mm)

Soil Extract Volume: _____(UL) Soil Aliquot Volume: ____(

CAS NO.		CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q	
					1
	Chloromethane		1	61	İU
74-23-7	Sromomethane	**************************************	1	61.	IU
	Vinyl Chloride		1	61	10
	Chicrosthens	100	{	61	ĮŪ
75-09-2	Methylene Chloride		1	76	1D
67-64-1 	Acetone		1	120	ID .
75-15-0	Carbon Disulfide	•	{	28	IDJ
75-35-4	1,1-Bichloroethene			61	IU
75-34-3	i.i-Dichlorcethane	e .	1	61	IU
540-57-0	1, 2-Dichlorae thene	(total)		61	IU
67- <i>6</i> 6-3	Chloroform	erina di perina	1	61	IU
107-04-2	1.2-Dichlorce thane	1 3 - 1	1	61.	- IU 🧠
72-93 - 3	2-Butanone		<u> </u>	61	tu 🐃
71-55-6	1, 1, 1-Trichloroeth	BRE	1	, 61	IU
54-23-5	Carbon Tetrachlori	ie	1	61	IU
75-27-4	Bromodichlorometha	ne	1	61	10
72-27-5	1.2-Dichloropropan			61	. IU
10061-01-5	cis-1.3-Dichlorger	90.00	1	61	10
79-01-6	Trichloroethene		1	61	. 10
124-46-1	Dibromochlorometha	ne	1	61	IU
79-00-5	1.1.2-Trichloroeth	Ene	{	61	IU
71-43-2	Benzane			61	· 1U
10041-02-6	trans-1,3-Dichloro	Propene_	f*^^	61	1U
75-25-2	Bromoform	<u> </u>	1	61	10
108-10-1	4-Methyl-2-Pentano	ne	1	61	10
	2-Hexanone		1	61	· 1U
127-18-4	Tetrachloroethene		1	61	I.U
79-34-5	1, 1, 2, 2-Tetrachlor	ethene_	<u> </u>	61	IU
08-88-3	Toluene		s	61	. IU
	Chicrobenzene		<u> </u>	11	IDJ
100-41-4	Ethylbenzene	•		61	IV L
00-42-5	Styrene	•		61	
1330-20-7	Xylene (total)			29	· IDAX

FORM I VOA

UDLATILE ORGANICS ANALYSIS DATA SHEET

	VULATILE	SUMMITTED HINETON	•	•	
L	ab Name: <u>ENVIROSYST</u>		Contract: <u>6</u>	BD10084	CKW42
		•	CAS No .	500	No CVUZA
L	ab Code: <u>ENVSYS</u>	.asa No. : <u>20101</u>	SMS NO	394	No.: Chwoo
M	atrix: (soil/water)	SOIL	- La	b Sample ID:	93060865
S	ample wt/vol:	5.0 (g/mL) G	La	b File ID:	060865
L	evel: (low/med)	LOW	Da	te Received:	06/04/93
7.	Moisture: not dec.	16	Da	te Analyzed:	06/12/93
G	C Column: <u>2TX-502.2</u>	_ ID: <u>_0.530</u> (mm)	Di	lution Factor	-:1.0
S	oil Extract Volume:	(UL)	So	il Aliquot Vo	olume:(
		• /	CONCENTR	ATION UNITS:	
(CAS NO.	COMPOUND		ug/Kg) <u>UG/K</u> (2 a
\	· · · · · · · · · · · · · · · · · · ·				 :
	74-87-3	Chloromethans			12 10
	74-83-7	ensivementane			12 IV. I
	: 75-01-4	Vinul Chloride	•		12 IU I
	: 75-00-3	Chlorosthane		 .	12 10 .1
	: 75-09-2	Methylene Chlo	oride	<u></u>	25 1 1
	: 67-64-1	Acetone	T - 40	1	48 1 1
	: 75-15-0- 	Carbon Disulf:	ld e	1	12 IU
	: 75-35-4	1, 1-Dichlorost	thene	1	12 IU 🕌
		1.1-Dichlorost			12 !U !
	: 540-59-0	1,2-Dichlorost	thene (total)	;	12 10 1
	1 67-66-3	Chloroform	_ <u></u>		12 IU I
	: 107-06-2	1, 2-Dichlorost	thane	;	12 10 1
(1 73-93-3	2-Butanone	<u>"</u>	• .	10 11
		1, 1, 1-Trichlor			12 10 1
		Carbon Tetrach			12 10
	1 75-27-4	Bromodichloron	nethane		12 10
•		1,2-Dichloropt			12 10
	1 10061-01-5	cis-1.3-Dichle	orodrobene	!	12 10
		Trichloroether		!	12 10
	124-45-1	Dibromochloron	ne thane	<u></u>	12 . 10
	77-00-5	1. 1. 2-Trichlor	oethane	<u>_</u>	12 10
	71-43-2		•	 !	12 10
•	: 10061-02-6	trans-1.3-Dich	irosobsob e ue		12 10
•	75-25-2	Bromoform_			12 10
•	103-10-1	4-Methyl-2-Per	TEADORE	!	12 10 - 1
•	1 371-78-6	2-Hexanone			12 10 1
		Tetrachloroeth		 !	12 (0)
		1, 1, 2, 2-Tetrac		·	12 10
	1 108-88-3	tornsus		i	12: IV

EPA SAMPLE

CKW42RE

Lab N	Name: ENVIROSYSTEMS	Contract: 68010084	
Lab C	ode: ENVSYS Case No. : 2010:	SAS No.:	EDG No.: <u>CKW3</u>
Matri	x: (soil/water) SOIL	Lab Sample	ID: <u>93060865</u>
Samp 1	le ut/vol:	Lab File ID	060865R
Level	: (low/med) LOW	Date Receiv	ed: <u>06/04/93</u>
7 Mai	sture: not dec. <u>16</u>	Data Analus	ed: + <u>06/13/93</u>
		- N - N - N - N - N - N - N - N - N - N	•
ec C	lumn: <u>RTX-502.2</u> ID: <u>0.530</u> (mm	Dilution Fa	ctor:1
Scil	Extract Volume: (uL)	Soil Alique	t Volume: 🚉
	CAS NO. COMPOUND	CONCENTRATION UNI (ug/L or ug/Kg) <u>u</u>	
	74.87.9	The same of the sa	12
	1 74-87-3Chloromethane 1 74-83-9Bromomethane		12 1U 12 1U
	75-01-4Vinyl Chlorid		
	1 75-00-3Chloroethana_		12 10
	1.75-09-2Methylane Chl	oridet	12 10
	67-64-1Acetone		45 18
	1 75-15-0Carbon Disulf	ide	12 10
,	1 75-35-41.1-Dichlarge	thene	· -
	1 75-34-31,1-Dichloroe		
	540-59-01, 2-Dichloros		
:	67-66-3Chloroform		
	1 107-06-2	thana	12 10
	1 78-93-32-Eutanone		- 14 B
•	1 71-55-6	reethana	
	1 56-23-5Carbon Tetrac	hiorida	12 10
	1 75-27-4Bramedichlard		12 10
	1 78-87-5	rocene	12 (0
	1 10061-01-5cis-1.3-Dich1		
	1 79-01-6Trichloroethe	DO I TOUR	12 IU
	1 124-48-1	methene	12 10
	1 79-00-51, 1, 2-Trichlo	roethene	12 10
	1 71-43-2Benzene	1	- 12 IU
	: 10061-02-6trans-1.3-Dic	hlaropropene	
	1 75-25-2Bramaform		12 10
	1 106-10-14-Me thy 1-2-Pe	ntanone	
•	591-78-62-Hexanone		12 10
	1 127-18-4Tetrachloroet	thone are sure of the same	
	79-34-51,1,2,2-Tetra		
	1 100mpp=0) % IT A U I U E U 	าราชานั้น เป
•	108-88-3Toluene 108-70-7Chlorobenzene	A Company of the Comp	ed 164 9 111
16 .	1 100-41-4	العديد تعدمنا ويوسوني معاريون وخفي وروا	2 1 1 1 5 1 1 1 L
·(,)	1 100-42-5Styrene	The second secon	3e 12 111
	1 1330-20-7Xylene (total		- 15 111 *

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CKW40 _____Contract: <u>68010084</u> - Lab Name: ENVIROSYSTEMS Lab Coda: ENVSYS Case No.: 20101 SAS No.: _____ SDG No.: CKW36 Lab Sample IÓ: 93060868 Matrix: (soil/water) SCIL Lab File ID: 060866 Sample wt/vol: (low/med) <u>LOW</u> Date Received: 06/04/93 Laval: % Moisture: not dec. <u>39</u> Date Analyzed: 06/12/93 GC Calumn: <u>RTX-502.2</u> ID: <u>0.530</u> (mm) Dilution Factor: _ Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____(L CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> CAS NO.

74-97-3	Chloromethans	_1	15	IU	1
74-93-9	3r omome than e	<u>_</u> 1	15	ľU	1
73-01-4	Viny1 Chloride	_1.	15	IU	1
75-00-3	Chioroethane	_;	15	IU	
75-09-2	Chioroethane	<u>_</u> ;	11	13	1
57-64-1 <i></i> -	Acatona		33	1	!
75-15-0	Carbon Disulfide	†	- 15	IU '	
75-35-4	1.1-Dichlorosthene	<u> </u>	14	IU	
			15	ŧU	ŧ
540-59-0	1.1-Dichloroethane 1.2-Dichloroethene (total)	_;	15	; U	i
57-5 5-3 -	Chicreform	<u>_</u> t	15	lU	ı
107-04-2- 	1,2-Dichlorosthams	1	16	IU.	}
73-93-3- 	2-Butanone	_[{	15	10	1
71-55-6	1,1,1-Trichloroethane	_ {	16	10	1.
56-23-5	Carbon Tetrachloride	_,	16	10	1.
75-27-4	Bromodichloromethane	- }	16	1U	ł
78-87-5	1,2-Dichloropropane		16	IU	· 1
10061-01-5	cis-1.3-Dichloropropens		16	10	1
79-01-6	Trichloroethene		15	IÜ	1
24-48-1	Dibromochloromethane	-	16	:U	i
79-00-5	1.1.2-Trichloroethane	_	15	.U	1
71 - 19-9		—.,·	14	ŧυ	. !
0061-02-4	trans-1,3-Dichloropropens		16	10	:
75-25-2	trans-1,3-Dichloropropens Bromoform		· 15	IU	. 1
08-10-1	4-Methyl-2-Pentanone		15	ΙŪ	:
391-78-6	4-Methyl-2-Pentanone 2-Hexanone :	- ;	16	įŪ	1
27-18-4	Tetrachloroethene	- ;	16		1
10-54-E			15		
08-88-3	Taluana	- ;	16	ΪŬ	1.
08-90-7		- ;	15	iU	يرا
00-41-4	Sthulbenzene	—;	. 16		H
00-42-5		-	16	10	n
. ~~. ~ ~ ~~.		•		· · · ·	

ia Unlatile organics analysis Data Sheet

EPA SAMPLE N

	VOLATILE ORGANICS ANALYSIS	S DATA SHEET	
	Lab Name: ENVIROSYSTEMS	Contract: ASD10084\\	CKWAORE
	••	·	'
	Lab Code: ENVEYS Case No.: 20101	SAS No.: SDG	No.: <u>CKW36</u>
	Matrix: (soil/water) SOIL	Lab Sample ID:	93060866
	Sample ut/vol: 0, 5.0 (g/mL) 6	Lab File ID:	060866R
	Level: (low/med) LOW	Date Received:	06/04/93
	% Moisture: not dec. <u>39</u>	Date Analyzed:	06/14/93
	GC Column: RTX-502.2 ID: 0.530 (mm)	Dilution Facto	r: <u>1.0</u>
	Scil Extract Volume: (uL)	Soil Aliquet V	olume:(u
<u>(</u>	CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/K	

CAS NO.	COMPOUND (us	//L or ug/Kg) UG/KG	Q
-1-67-9	Chloromethans	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·	! !บ
	Bromomethane			10
	Vinyl Chloride			10
			-	1U
: :	Chioroethane	 \	16 25	
Z-07-2	Methylene Chloride	44 (4)		
	Acetone Carbon Disulfide	<u> </u>	ş. — —	i U
3-13-0		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		រប
	1, 1-Dichlorce thene			IU
7-34-3	1,1-Dichlorcethane(; 1,2-Dichlorcethane(;		, ,, - -	ıu
- · -				10
:7-66-3	Chloroform			1U
07-06-2	1, 2-Dichlorce thane			Į U
6-43-3	2-Sutanone		. — —	IU .
	1, 1, 1-Trichloroethane		16	
	Carbon Tetrachloride			!U
	Bromodichloromethane			
8-87-5	1.2-Dichlaraprapane_		er a militar and Till and	IU
0061-01-5	cis-1,3-Dichloroprope	ne	,,	ĮŲ.
	Trichloroethene			10
	Dibromochloromethane		, — — , , , , , , , , , , , , , , , , ,	10
	1,1,2-Trichloroethane		, -	:U
	Benzene		1	IU
0051-02-6	trans-1,3-Dichloropro	beus		10
3-25-2	Bromoform 4-Methyl-2-Pentanone			IU
08-10-1	4-Methyl-2-Pentanone		, - - ·	IU
71-78-6	2-Hexanone		• "	10.
27-18-4	Tetrachloroethene		.16	
7-34-5	1, 1, 2, 2-Tetrachlorce	haneI		IU
	Taluene			10
	Chlorobenzene			ابر ۱۷
00-41-4	Ethylbenzene			וט ען
00-42-5	Styrene_	<u>Cartin season</u>		IU .
30-20-7	Xylene (total)	A Maria Carlo		ίŪ

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

	VOLATIL	E CRGANICS ANALYS	TO DUIN DU	521		
	b Name: <u>ENVIROSYS</u>	TEMQ	Contract	: <u>63010084</u>	i CKI	W 61
•	•	•			·	
Lai	b Code: <u>ENVSYS</u>	Case No.: 20101	SAS No.	: SDG	No. ;	CKM39
Mai	trix: (soil/water) SOIL		Lab Sample ID:	930	60867
	1	5.0 (g/mL) <u>G</u>	÷	Lab File ID:	040	 847
341	ubia mesagr:			•	•	·.
Lav	vel: (low/med)	LOW		Date Received:	06/	04/93
% N	Moisture: not dec	. <u>25</u>		Date Analyzed:	06/	12/93
GC	Column: ATX-502.	2 ID: <u>0.530</u> (mm)	Dilution Facto	r: <u> </u>	1.0
So	il Extract Volume	:(uL)		Sail Aliquet V	oluma:	•
•	·•	•	'CONCE	NTRATION UNITS:		•
	CAS NO.	COMPOUND	 -	or ug/Kg) <u>UG/K</u>	<u> </u>	G
	,		•	<u> </u>		
	74-87-3	Chicromethane			- 13	iu - i
	: 74-93-7	Bromomethane_		<u> </u>		10 1
	: 75-01-4	Vinul Chlorid	8		13	IU I
	: 75-00-3	Chlorosthams_		<u></u>	13	10 1
	! 75-09-2	Mathylane Chl	oride		370	IE I
	: 57-54-1	Acatone	· .	· •	82	1 . !
	: 75-15-0	Carbon Disulf	ide	· · · · · · · · · · · · · · · · · · ·		ŧU (
	. 1 75-35-4	1,1-Dichloros	thene			10
	: 75-34-3	1,1-Dichloroe	thane	<u> </u>		10 1
		i, 2-Dichloros				10 [
		Chloroform				in i
	: 107-04-2	1,2-Dichlorae	thane			10 1
(: 73-93-3	2-Butanone		<u>a la la la la la la la la la la la la la</u>	15	1
	i- 71-55-6	1, 1, 1-Trichlo	roethane	· · · · · · · · · · · · · · · · · · ·		10
	55-23-5	Carbon Tetrac	hloride		13	•
	! 75-27-4	Bromodichloro	methane <u>-</u>		13	• -
	1 73-37-5	1,2-Dichlorop	ropane		13	
	10061-01-5	cis-1.3-Dich1	orogropene,		13	
	79-01-6	Trichloroethe	ne		13	
	124-49-1	Dibromochloro	methane		13	
	79-00-5	1, 1, 2-Trichlo	rosthan <u>ş</u>		13	
	71-43-2	Senzane trans-1.3-Dic			13	_
	10041-02-4	trans-1,3-Dic	y Toloblob e:	n•!	13	
	1 75-25-2	Bromoform				10
	: 108~10~1	4-Mathul-2-2a	ntanons	!	13	
•	1 591-78-4	2-Hexanone				10
	127-18-4	Tetrachloroet	nene		~ —	IU !
	77-34-5	1, 1, 2, 2-Tetra	cnloroețha	na	13	_
	! 109-29-3	-bestalusas			17	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CKW41RE Contract: 68010084 Lab Name: ENVIROSYSTEMS Case No.: 20101 SAS No.: _____ SDG No.: CKW36 LAB Code: ENVSYS Lab Sample ID: 93060867 Matrix: (soil/water) SOIL Sample wt/vol: 5.0 (g/mL) G Lab File ID: 060867R Date Received: 06/04/93 (low/med) LOW____ Level: Date Analyzed: 06/13/93 GC Calumn: RTX-502.2 ID: 0.530 (mm) Dilution Factor: _____1.0 Soil Aliquot Volume: ____(ui Soil Extract Volume: CONCENTRATION UNITS: COMFOUND CAS NO. (ug/L or ug/Kg) <u>UG/KG</u> ! 74-27-2-----Chloromethane___ 13 -IU 13 1 74-83-9----- Bromomethane__ IU . : 75-01-4-----Vinyl Chlorida____ 13 10 | 75-00-3----Chloroethane____ 13 10 48 1 75-09-2----Methylene Chloride____ -1 35 1 67-64-1-----Acetone____ 13 1 75-15-0-----Carbon Disulfide_____! 13 . 10 1 75-35-4-----1, 1-Dichlarge thene_____1 13 : 75-34-3-----1, 1-Dichlorcethane_ -10 13 : 540-59-0-----1, 2-Dichlorosthena (total)___ 13 · U 1 67-66-3-----Chloroform____ - 13 - IU : 107-06-2----1, 2-Dichlorosthane_____ 13 -10 : 78-93-3----2-Butanone_____ 26 В 13 IU | 56-23-5-----Carbon Tetrachloride____| 13 IU

: 79-01-6-------Trichloroethene____!

1 79-00-5------1, 1, 2-Trichloroethane____

1 127-18-4----Tetrachloroethene

| 71-43-2----Benzene____

1 75-25-2-----Bromoform

| 106-88-3----Toluene____

| 591-78-6----2-Hexanone____

| 124-48-1-----Dibromochloromethane_____I

: 10061-02-6----trans-1,3-Dichloropropene___i

1 79-34-5-----1, 1, 2, 2-Tetrachloroethane____1

1A VOLATILE GRGANICS ANALYSIS DATA SHEET

	• •			W62
Lab Name: <u>ENVIROSYSTEMS</u>	Cant	ract: <u>68010084</u>	'	
Lab Code: ENVSYS Case No	.: <u>20101</u> SAS	No.:	SDG No. :	CKM36
Matrix: (soil/water) SCIL	•	Lab Sampl	• ID: <u>930</u>	60878
Sample wt/vol:	(g/mL) <u>G</u>	Lab File	ID: 060	868
Level: (low/med) LGW	•	Date Rece	ived: <u>06/</u>	04/93
% Moisture: not dec. <u>62</u>		Date Anal	uzed: <u>06/</u>	13/93
GC Column: <u>RTX-502.2</u> ID: _	0.530 (mm)	Dilution	Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliq	uot Volume	:0
		ONCENTRATION U	NITS:	
CAS NO. COMP	מאטם (ug/L or ug/Kg)	<u>ng/kg</u>	G
: 74-87-3Chlo			74	i i
74-33-93rom	omethane		26 26 :	
: 75-01-4Ving	1 Chloride			iŭ
: 75-00-3Chlo			-	iŭ i
: ·75-09-2Math	ulene Chlorida		. — —	· -
: 67-64-1Acet	one		29	: E:
: 75-15-0Carb	on Disulfide		26	IU .
! 75-35-41, 1-	Dichlorosthene		25	10
: 75-34 - 31, 1-	Dichlorosthans_		25	in i
: 540-59-01, 2-	Dichlorosthene	(total)	26	10 1
67-65-3Chlo	roform			10
1 107-04-21, 2-	Dichlorosthane_			10
1 78-93-32-8u	tanone	t	26	
1 71 - 55 - 4 1, 1,				10
: 56-23-5Carb			26	IU !
: 73-27-4Brom			25	IU !
: 73-97-51, 2-			25	10
10041-01-5cis-	1,3-Dichloropro	pene	25	
: 79-01-6Tric	urocostusus		.26	10
124-48-1Dibr	omochioromethan	· · ·	25	
1 79-00-51,1,	Z_illculatostus	-را <u></u>	26 25	10 1
: 71-43-2	ent 3-Bichlende		26	
: 75-25-2Brom		inhaus——i	26	
: 109-10-14-Me			·	Ü
591-73-62-He	TARREST TERRESTOR	' 	26	
127-13-4Tetr	achloroethane	·	26	
179-34-51,1,		ethane		iu i
108-83-3Tolu			8	
108-70-7Chlo			26	
1.100-41-4Sthu	lbenzene		26	1197/
100-42-5Styr	ene <u></u>		- 26	
1 1330-20-7Xyle	ne (total)		26	

volatile organics analysis data sheet

EPA SAMPLE

CKW62RE Lab Name: ENVIROSYSTEMS Contract: 6ED10084 Lab Code: ZNVSYS Case No.: 20101 SAS No.: ____ SDG No.: <u>CKW36</u> Matrix: (soil/water) SCIL___ Lab Sample ID: 93060868_ Lab File ID: Sample wt/vol: 5.0 (g/mL) G 040848Z .Level: (low/med) LCW Date Received: 06/04/93 Date Analyzed: 06/17/93 % Maisture: not dec. __62 GC Column: RTX-502.2 ID: _0.530 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: . Soil Extract Volume: ____ (uL) CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) <u>VG/KG</u> Q : 74-97-3-----Chloromethane____ เบ 25 łÚ 26 : 75-01-4----Vinul Chloride____ IU 1: 75-00-3-----Chloroethane____ 26 IU : 75-09-2----Methylene Chloride 26 IU : 67-64-1------Acetone__ 43 IB 26 : 75-15-0-----Carbon Disulfide IU IU 1 75-34-3-----1, 1-Dichlorce thane_ 24 10 | 540-59-0-----1, 2-Dichloros thene (total) IU : 67-66-3----Chloroform____ 26 | IU. : 107-06-2----1, 2-Dichloroethane____ 26 IU | 78-93-3----2-Butanone____ 26 IU 1 71-55-6-----1,1/1-Trichloroethane 26 IU | 56-23-5----Carbon Tetrachloride____ 26 75-27-4----Bromodichloromethane____ IU 26 1 78-87-5----1, 2-Dichloropropane_____ IU 1 10061-01-5----cis-1.3-Dichloropropene____ 26 IU : 79-01-6----Trichlorcethene 26 10 : 124-48-1-----Dibromochloromethane 24 10 26 10 | 71-43-2-----Benzene_ 24 IU 1 10061-02-6----trans-1, 3-Dichloropropene___ 1 75-25-2----Bramsform____ 26 | 108-10-1----4-Methyl-2-Pentanone 26 . IU 26 ,. 1 591-78-6----2-Hexanone____ IU 1 127-18-4----Tetrachloroethene___ 26 10 26 IU | 108-88-3----Toluene____ 26 IU 108-90-7-----Chlorobenzene 26 1 100-41-4----Ethylbenzene 26 10 1 100-42-5-----Styrene____ 26 IU | 1330-20-7-----Xylene (total)____

EPA SAMPLE

SEMIUCLATILE ORGANICS ANALYSIS DATA SHEET CXMSO Contract: 68010084 Lab Name: ENVIROSYSTEMS Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CXUZU Matrix: (soil/water) SCIL Lab Sample ID: 93060833 Sample wt/vol: 30.0 (g/mL) Q Lab File ID: **EE80908** Date Received: Level: (low/med) LCW 06/03/93 decanted: (Y/N) N___ % Moisture: 24 Date Extracted: 06/22/93 Concentrated Extract Volume: 500.0 (uL) Date Analysed: 06/28/93 Dilution Factor: _____1.0 GPC Cleanup: (Y/N) Y pH: 7.7 CONCENTRATION UNITE: CAS NO. COMPOUND (ug/L or ug/Kg) <u>Ug/KG</u> @ : 108-95-2-----Phenol____ 450 10 : 111-44-4-----bis(2-Chloroethyl)Ether____! 450 IU : 95-57-8-----2-Chlorophenol____ 450 W 450 IU | 104-44-7----1, 4-Dichlorobenzene____ 450 IU 450 IU : 95-48-7----2-Methylphenol_ 450 IU : 108-60-1----2, 2'-oxybis(1-Chloropropane)_| 450 IU i 104-44-5----4-Methylphenol____ 450 IU | 621-64-7----N-Nitroso-Di-n-Propulamine___| 450 IU : 67-72-1----Hexachloroethane 450 IU | 98-95-3----Nitrobenzene____! 450 lu ----Isophorone 450 78-59-1----IU : 88-75-5-----2-Nitrophenol____ 450 | 105-67-9-----2, 4-Dimethylphenol____ IU 450 IU : 111-91-1-----bis(2-Chloroethoxy)Methane___! 450 IU 1 120-83-2-----2, 4-Dichlorophengl____ 450 IU 1 120-82-1-----1, 2, 4-Trichlorobenzene 450 IU | 91-20-3 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene | 106-47-6 Naphthalene 450 IU 450 IU 87-48-3 -----Hexachlorobutadiene_ 450 !U 1 59-50-7-450 IU ----2-Methy Inaph thal ene____ 1 91-57-6----450 IU 1 77-47-4-----Hexachlorocyclopentadiene____ 450 IU

| 88-74-4-----2-Nitroaniline___

1. 95-95-4-----2, 4, 5-Trichlorophenol____

i 91-58-7----2-Chloronaphthalene____

1 88-06-2--

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SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

EPA SAMPL

CXW20

Contract: 68010084 Lab Name: ENVIROSYSTEMS

Case No.: 20101 SAS No.: _____ SDG No.: CKW20

Matrix: (soil/water) SOIL Lab Sample ID: 93060833

S060833 Sample wt/vol: _30.0 (g/mL) &_ Lab File ID:

Level: (low/med) LCW Date Received: 06/03/93

decanted: (Y/N) N Date Extracted: 06/22/93

Concentrated Extract Volume: 500.0 Date Analyzed: <u>06/28/93</u>

Dilution Factor: 1.0 Injection Volume: _____2.0(uL)

GPC Cleanup: (Y/N) Y CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG .

ONS ITO.	COUNTOIND CORP.	ANNA TANKA	•
	grand the second second second second second second second second second second second second second second se		;
51-28-5	2,4-Dinitrophenol	_1 1100	10 1
100-02-7	4-Nitrophenol	_1 1100	iu i
125-64-1	Uldenicturen	(430	:tu t
121-14-2	2,4-Dinitrotoluene	1	iu i
84-66-2	Diethylphthalate	1 450	JU I
7005-72-3	4-Chlorophenyl-phenylether_	t 450	31U - I
86-73-7	Fluorene	1	10 1
100-01-6	4-Nitroaniline	1 1100	IU I
534-52-1	4, 6-Dinitro-2-methylphenol_		3U 1
86-30-6	N-Nitrosodiphenylamine (1)	_1 450	10 1
101-55-3	4-Bromopheny1-phenylether_	450	IU I
118-74-1	Hexachlorobenzene	_1 450	IU I
87-84-5	Pentachlorophenol	1 1100	iŭ i
85-01-8	Phenanthrene		ij i
120-12-7	Anthrecene	450	iŭ i
84-74-8	Carbazola		iŭ i
84-74-2	Di-n-Butulphthalate	450	iū i
204-44-0	Fluorenthene	700	i
199-00-0	Pyrene		ij i
DS-40-7	Butylbenzylphthalate		iŭ i
01-66-1	3,3'-Dichlorobenzidine	450	iu
71-74-1-7	Benzo(a)Anthracene		ij
26-22-3	Benzole/Anthracene	_i 250	13 1
718-01-7	Chrysene bis(2-Ethylhexyl)Phthalate		
	Di-n-Octyl Phthalate		iu i
	Benzo(b)Fluoranthene		
	Benzo(k)Fluoranthene		ilu t
50-32-8	Benzo(a)Pyrene	F 450	IU I
193-39-5	Indeno(1, 2, 3-cd)Pyrene		IU .
53-70-3	Dibenz(a,h)Anthracene	450 المهارية (المستحد ال	لاِن الله
	Benzo(g/h/i)Perulene		ाण धिर

EPA SAMPLE

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SEMIVULATILE ORGANICS ANALYSIS DATA SHEET

CKW21 Lab Name: ENVIROSYSTEMS Contract: 68010084 Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CKW20 Matrix: (soil/water) SOIL Lab Sample ID: 93060834 Lab File ID: Sample wt/vol: 30.0 (g/mL) G S060834R Date Received: Level: (low/med) LCW 06/03/93 29 decanted: (Y/N) N Date Extracted: 06/29/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/02/93 Dilution Factor: _____1.0 GPC Cleanup: (Y/N) Y pH: 7.4 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG . @ | 108-95-2----Phenol____ 440 IU 1 111-44-4-----bis(2-Chloroethyl)Ether____! 440 IU | 95-37-8----2-Chlorophenol____ 460 IU : 541-73-1-----1, 3-Dichlorobenzene___ 460 IU 440 IU | 95-50-1-----1, 2-Dichlorobenzene 440 . 10 : 95-48-7----2-Methylphenol___ . 460 IU : 108-60-1----2, 2'-oxybis(1-Chloropropane)_! 460 IU 1 106-44-5----4-Methylphenol_ 460 IU | 621-64-7----N-Nitroso-Di-n-Propylamine__ 460 .IU 67-72-1----Hexachloroethane 460 IU 1 98-95-3-----Nitrobensene____ 460 lU : 78-39-1-----Isophorone____ 440 IU | 88-75-5----2-Nitrophenol_ 440 IU | 105-67-9----2, 4-Dimethylphenol | 111-91-1-----bis(2-Chioroethoxy)Methane | 120-83-2-----2, 4-Dichlorophenol 460 - IU 440 lU 440 !U 120-82-1-----1, 2, 4-Trichlorobenzene___ 460 IU 71-20-3----Naphthalene___ 440 IU 1 106-47-8-----4-Chloroaniline 460 10 ----Hexachlorobutadiene___ 460 IU | 59-50-7----4-Chloro-3-Methylphenol___ 460 IU ----2-Methylnaphthalene____ 10 1 91-57-6----460 -----Hexachlorocyclopentadiene__ 1 77-47-4----440 IU 1 68-04-2----2, 4, 4-Trichlorophenol___ 460 -10 1 95-95-4----2, 4, 5-Trichlorophenol_____ 1100 lU 460 r 91-38-7----2-Chloronaphthalene____ IU 1 88-74-4-----2-Nitroaniline___ 1100 IU 1 131-11-3-----Dimethylphthalate___ .460 10 460 IU IU 460 10 1100 460 TESTIBLIAN FORM I SV-1 AR000288

CXW21 Lab Name: ENVIROSYSTEMS Contract: 68010084 1 SED-4 Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No.: CKW20

 Matrix: (scil/water) SGIL
 Lab Sample ID: 93060834

 Sample wt/vol:
 30.0 (g/mL) G
 Lab File ID: 5060834R

 Date Received: 06/03/93 (low/med) LOW decanted: (Y/N) N Date Extracted: 06/29/93 % Mgisture: ____29 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/02/93 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) Y pH: 7.4 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG . @ | 51-28-5----2, 4-Dinitrophenol____! | 100-02-7----4-Nitrophenol____! 1100 10 1100 IU 1 132-64-9-----Dibenzofuran_____ 440 IU 460 IU 1 84-66-2----Diethylphthalate_____ 460 IU 1 7005-72-3----4-Chlorophenyl-phenylether___i 460 1U 1 86-73-7----Fluorene____ 10 IU 111 | 86-30-6----N-Nitrosodiphenylamine (1)___ | 460 | 101-55-3-----4-Bromophenyl-phenylether___ | 460 | 10 IU 1 118-74-1----Hexachlorobenzene 460 IU . 1100 IU 1 85-01-8------Phenanthrene | 180 1 120-12-7-----Anthracene____ 460 IU 208-44-0------Fluoranthene 410 1 129-00-0-------Purene____ 220 85-68-7-1 91-94-1 3'-Dichlorobenzidine 460 IU 1 56-55-3----10 1 218-01-9----Chrysene__ 160 -bis(2-Ethylhexyl)Phthalate 1 205-99-2----Benzo(b)Flucranthene 400 460 -Benzo(k)Fluoranthene____ 1 50-32-8----Benzo(a)Pyrene ! 150 1 193-39-5---Indend(1, 2, 3-cd)Pyrene____I 460 --- Dibenz (a, h) Anthracene : 100 --- 100 --- 2460 (1) - Cannot be separated from Diphenylamine

FORM I SV-2

AR000289

3/90

19 SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

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CKWZZ	12
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•	Lab N	ame: <u>ENVIROSY</u> S	ITEMS	Contract	68010084	CKW2Zagy 7/
	1 = h C	ada. ENUEVE	Case No. : 20101	545 Na 4	4 7	No No CKUPO
	Lau C	000. <u>207313</u>	Case No <u>20101</u>	ana no.,	,	MA MA: CXMSO
	Matri	x: (soil/water) SOIL		Lab Sample II	93040835
_	Sampl	e wt/vol:	_30_0 (g/mL) <u>G</u>		Lab File ID:	9060835RE
	l aval:	: (low/med)	LOW	·	Date Received	
-				•	•	
•	% Mois	sture: <u>49</u>	decanted: (Y/N)	N	Date Extracte	4: 07/02/93
-	Concer	ntrated Extrac	t Volume: 500.0	(uL)	Date Analyzed	: 07/06/93
-	Inject	tion Volume:		•	Dilution Fact	or: io
•	_		 -			
-("	GPC CI	leanup: (Y/N) <u>Y</u> pH: <u>7</u>		ENTRATION UNI	Tg.
	•	CAS NO.	COMPOUND	• -	L.or ug/Kg) U	
_		,	<u> </u>			
•	•	108-95-2	Phenol		i	650 IU
_	i		bis(2-Chloroet		 -	650 IU I
	1	95-37-8	2-Chlorophenol			450 IU I
	:	541-73-1	1.3-Dichlorobe	n:ene	1	450 IU I
-		106-46-7	1,4-Dichlorobe	nzene	<u>.</u> .	450 IU
	· · · · · · · · · · · · · · · · · · ·	95-50-1	1,2-Dichlorobe	nzene		650 IU 🔾
•		95-48-7	2-Methylphenol		<u> </u>	450 IU I
•	•	108-40-1	2, 2'-oxybis(1-	Chloroprop	ane)_!	450 IU I
	i	106-44-5	4-Methylphenol			280 IJ I
-		621-64-7	N-Nitroso-Di-n	-Propylami	ne	450 IU I
(- 1	0/-/2-1	Hexachloroetha	N9	, 	650 IU I
C.	•	78-58-1	Nitrobenzene Isophorone		 ;	450 IU I
	1 1:	. 88-75-5	2-Nitrophenol_		 ;	450 IU I
	•	105-47-9	2.4-Dimethulph	enol	·i	450 IU I
	i.		bis(2-Chloroet	• • • • • • • • • • • • • • • • • • • •	ne i	650 IU I
•			2.4-Dichloroph			650 IU I
•	1		1, 2, 4-Trichlore			450 IU I
		91-20-3	Nachthalene	,		650 IU I
• .	1		4-Chloroanilin			650 IU - I
•	1	87-68-3	Hexachlorobutac	iiene		650. IU I
	1	59-50-7	4-Chloro-3-Meti	nylphenol_		450 IU I
•		91-57-4	2-Methylnaphth:	alene		650 IU I
		77-47-4	Hexachlorocycle	ppentadien	•	650 · IU I
		88-06-2	2, 4, 6-Trichlore	ophenol		650 IU I
•		95-95-4	2. 4. 5-Trichlore	phenol		1600 IU I
	· .		2-Chloronaphtha			650 IU I
•			2-Nitrbaniline			1600 IU I
			Dimethylphthala		The second secon	650 IU I
• 1		A04-20-2	Acenaphthylene		<u> </u>	650 IU
	· · · · · · · · · · · · · · · · · · ·		3-Nitroaniline		Table Andrew Control of the Control	1600 10 14
•			Acenaphthene		1. 29 k. 35	650 10 700
		* * mg			,,,	1 2:1/
		· Pagarunna	FOR	M I SV-1	AR000290	11814 3190
•	100	, 1 ~28 56009	i i i ·	:	MNUUUZJU	· -

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CA, Lab Name: ENVIROSYSTEMS ______ Contract: 68D10084 Lat Cade: ENVSYS Case No.: 20101 SAS No.: SDG No.: CKWZO Matrix: (scil/water) <u>SOIL</u> Lab Sample ID: 93060835 Sample wt/vol: 30.0 (g/mL) G Lab File IB: 5060835RE Level: (low/med) LOW Date Received: 06/03/93 49 decanted: (Y/N) N Date Extracted: 07/02/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/06/93 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) Y pH: 7.2 CONCENTRATION UNITS: COMPOUND (ug/L ar ug/Kg) Ug/Kg - Q CAS NO.

| 51-28-5----2,4-Dinitrophenol____| 1600 | U | 100-02-7----4-Nitrophenol____| 1600 H 650 : 132-64-9------Dibenzofuran___ lU | 121-14-2-----2.4-Dinitrotoluene____! 650 1. 534-52-1------4, 6-Dinitro-2-methylphenol____ 1600 : 84-74-2-----Di-n-Butylphthaldte_____ 640 IU : 56-55-3-----Benzo(a)Anthracene____ 390 218-01-9-----Chrysene____ 1 117-81-7-----bis(2-Ethylhexyl)Phthalate____ 650 IU | 117-84-0-----Di-n-Octyl Phthalate____| 650 | U | 205-99-2----Benzo(b)Fluoranthene | 1000 | 207-08-9-----Benzo(k)Fluoranthene | 410 | 410 | ---Indenc(1.2.3-cd)Pyrene_____ IJ 1 193-39-5---1 53-70-3-----Dibens(a, h) Anthracene_____ 191-24-2----Benzo(g, h, i)Perylene 420 IJ

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

CXW23

93060836

AE80408

Lab Name: <u>ENVIROSYSTEMS</u> Contract: <u>68010084</u>

Case No.: 20101 SAS No.: Lab Code: ENVSYS_ SDG No.: CKWZO

Matrix: (soil/water) SOIL

30.0 (g/mL) G Lab File ID:

Lab Sample ID:

Level: (low/med) LOW_

Date Received: 06/03/93

45 decanted: (Y/N) N Date Extracted: 06/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/29/93

Injection Volume: _____2.0(uL)

Dilution Factor:

GPC Cleanup: (Y/N) Y___

Sample wt/vol:

pH: <u>7.3</u>

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG ·

: 108-95-2----Phenol 400 IU : 111-44-4-----bis(2-Chloroethyl)Ether_ 600 IU | 93-37-8----2-Chlorophenol_____ | 541-73-1-----1,3-Dichlorobenzene_ 600 IU 600 IU 1 104-44-7-----1, 4-Dichlorobenzene_ 400 10 : 95-50-1-----1, 2-Dichlorobenzene_ 600 IU 1 95-48-7----2-Methylphenol_ 400 IU 1 108-60-1----2,2'-oxybis(1-Chloropropane)_1 600 IU : 104-44-5-----4-Methylphenol____ 600 IU 621-64-7----N-Nitroso-Di-n-Propylamine_ 600 IU 47-72-1----Hexachloroethane 600 IU 400 --Nitrobenzene__ 10 ---Isophorone_ 600 IU 1 88-75-5----2-Nitrophenol__ 600 IU 400 IU 1 105-67-9----2, 4-Dimethylphenol____ 1 111-91-1------bis(2-Chloroethoxy)Methane_ 600 ----2,4-Dichlorophenbl___ 400 IU 400 IU 1 120-82-1----1,2,4-Trichlorobenzene 🗀 71-20-3---400 IU ---Nashthalene__ --4-Chloroaniline_____ 1 106-47-B 400 IU --Hexachlorobutadiene___ 400 IU 87-48-3----4-Chloro-3-Methylphenol____ 400 10 1 59-50-7--1 91-57-6---2-Methylnaphthalene____ 400 IU 400 1 77-47-4-----Hexachlorocyclopentadiene__ IU 600 IU -2.4.6-Trichlorophenol_ 1 95-95-4-------2.4.5-Trichlorophenol 1500 IU | 91-58-7----2-Chloronaphthalene 600 2-Nitroaniline 1500 : 1 88-74-4--- IU ---Dimethylphthalate_____i 600 10 · : 131-11-3----208-76-8---Acenaphthylene **~ 600** 600 # 606-20-2----2, 6-Dinitrotoluene____ IU 1500 1 99-09-2-----3-Nitroaniline__ 3 400 · 1U 1 83-32-9--Acenaphthene_

AR000292- FORM I SV-1 \$3 60 1/1

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EPA SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET CKW23 Lab Name: ENVIROSYSTEMS -- Contract: 68010084 Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No.: CKWZO Lab Sample ID: Matrix: (scil/water) SOIL 93060836 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060836 (low/med) <u>LOW</u> Date Received: 06/03/93 % Moisture: 45 decanted: (Y/N) N Date Extracted: 06/10/93 Concentrated Extract Volume: 500.0 (uL). Date Analyzed: 06/29/93 Injection Volume: 2.0(uL) Bilution Factor: 1.0 GPC Cleanup: (Y/N) Y pH: 7.3 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG . @ | 51-28-5-----2, 4-Dinitrophenol___ 1500 IU | 100-02-7----4-Nitrophenol_____ | 132-64-9-----Dibenzofuran____ 1500 - 600 | 121-14-2----2, 4-Dinitrotoluene___! | 84-66-2-----Diethylphthalate___! 600 IU 600 i 7005-72-3----4-Chlorophenyl-phenylether___! 600 | 86-73-7-----Fluorene_______| | 100-01-6-----4-Nitroaniline_____ ___ 600 : *:* 1∈1500 ; 534-52-1----4, 6-Dinitro-2-methylphenol___! 1500 1 66-30-6----N-Nitrosodiphenylamine (1)____1 600 1 101-55-3-----4-Bromophenyl-phenylether____ 600 1 118-74-1-----Hexachlorobenzene____ * ...a * 600 10 : 87-86-5----Pentachlorophenol 1500 85-01-B-----Phenanthrene 570 IJ | 120-12-7-----Anthracene___ IU 600 | 86-74-8-----Carbazole____| | 84-74-2------Di-n-Butylphthalate_____| 10 IBJ 440 | 206-44-0----Flucrenthene 1400 | 129-00-0------Pyrene____ · 620 600 - ما مرا 1 85-68-7----Butylbenzylphthalate_ ·IU - 600 IU 1 56-55-3----Benzo(a)Anthracane_____ 460 IJ : 218-01-9-----Chrusene___ 117-81-7-----bis(2-Ethylhexyl)Phthalate___1 1800 1 117-84-0----Di-n-Octyl Phthelete_____ | 600 | 205-99-2----Benzo(b)Fluorenthene___| 207-08-9----Benzo(k)Fluorenthene 400 1 50-32-8-----Benzo(a)Purene____ 190 IJ 193-39-5----Indeno(1, 2, 3-cd)Pyrene____ 1 53-70-3-----Dibenz(a, h) Anthracene____1 600 IU 1 191-24-2----Benzo(g, h, 1)Perylene

FORM I SV-2

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SEMIVULATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

CXW24

Lab Name: ENVIROSYSTEMS _____ Contract: 68010084 SDG No.: CXL Lab Code: ENVSYS Casa No.: 20101 SAS No.: Matrix: (soil/water) SOIL Lab Sample ID: 93060837 Samole wt/vol: 30.0 (g/mL) 6 Lab File ID: 3040837 Level: (low/med) LOW Date Received: 06/03/93 27 decantad: (Y/N) N Date Extracted: 06/10/93 % Moisture: Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93 Dilution Factor: 1.0 (Y/N) Y pH: <u>7.3</u> GPC Cleanup: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) Ug/KG 450 IU : 111-44-4----bis(2-Chloroethyl)Ether____ 450 IU 95-57-8----2-Chlorophenol____ 430 IU : 541-73-1-----1, 3-Dichlorobensene 450 IU 450 lu : 95-50-1------1, 2-Dichlorobenzene___ 450 IU : 95-48-7----2-Methylphenol___ 450 lU 450 450 : 108-60-1----2, 2'-oxybis(1-Chloropropane)_! IU | 106-44-5----4-Methylphenol_____ · IU : 621-64-7----N-Nitroso-Di-n-Propylamine____ 450 lU : 67-72-1-----Hexachloroethane: 98-95-3-----Nitrobenzene 450 IU 450 IU : 78-59-1-----Isophorons____ 450 LU 1 88-73-5----2-Nitrophenol____ 450 IU : 105-67-9----2, 4-Dimethylphenol____ 450 IU ! "111-91-1-----bis(2-Chloroothoxy)Methane__ 450 IU 450 : 120-83-2----2, 4-Dichlorophenol____ lu | 120-82-1----1, 2, 4-Trichlorobenzene____ 450 tu 1.91-20-3----Naphthalene IU 450 106-47-6---450 IU -----Hexachlorobutadiene 1 87-68-3 450 tU 1 59-50-7----4-Chloro-3-Methylphenol_____| 450 IU ----2-Methylnaphthalene___ 450 IU : 77-47-4------Hexachlorocyclopentadiene____ 450 IU : 88-04-2----2, 4, 6-Trichlorophenol_____ 450 IU | 95-95-4----2, 4, 5-Trichlorophenol_____| 1100 IU | 91-58-7----2-Chloronaphthalene____ . 450 lU | 88-74-4----2-Nitroaniline____ IU 1100 : 131-11-3-----Dimethylphthalate____ 450 IU 1 208-96-8-----Acenaphthylene__ 450 IU IU. : 606-20-2----2, 6-Dinitrotoluene____ **450** : 99-09-2----3-Nitroaniline____ 1100 : 1U --Acenaph thene____ IU

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38AR000295

EPA SAMPLE

13

SEMIVOLATILE GRGANICS ANALYSIS DATA SHEET

EPA SAMPLE

CKWZA Lab Name: ENVIROSYSTEMS ____ Contract: <u>68D10084</u> Case No.: 20101 SAS No.: ____ Lab Code: ENVSYS SDG No. : CKW20 Matrix: (soil/water) SCIL Lab Sample ID: 93060838 Sample wt/vol: _30.0 (g/mL) G Lab File ID: 5060838 (low/med) LCW Date Received: 06/03/93 % Molsture: ____29 decanted: (Y/N) N___ Date Extracted: 06/10/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93 Injection Volume: _____2.0(uL) Dilution Factor: GPC Cleanup: (Y/N) Y pH: <u>8.0</u> CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/KQ -

i			1	 :
I	108-95-2	460	10	1
į	111-44-4bis(2-Chloroethyl)Ether	460	-10	l l
1	95-57-82-Chlorophenol	460	IU	1
1	341-73-11, 3-Dichlarobenzene	460	IU	1
į	106-46-71, 4-Dichlarabenzene	460	, . •	
1	75-50-11, 2-Dichlorobenzene	460	IU	Y
ı	95-48-72-Methylphenol	460	IU	1
ł	108-40-12.2'-exubis(1-Chloregrepane)	440	IU	1
ı	106-44-54-Methylphenol	310	IJ	ŧ
i	106-44-54-Methylphenol	460	IU	1
1	67-72-1Hexachloroethane	460	IU	1
1	98-95-3Nitrobenzene	460	Įυ	1
1	78-59-1Iscahorone	460	IU	1
1	88-75-32-Nitrophenol	460	1U	. 1
ı	88-75-32-Nitrophenol	460	IU	i
1	111-91-1bis(2-Chloroethoxy)Methane	460	10	ì
1	120-83-22, 4-Dichlorophenbl	460	IU	İ
ì	120-82-11, 2, 4-Trichlorobenzene	460	ĬŪ	i i
i	71-20-3Nanhthalane		IÜ	i
i	91-20-3Naphthalene 106-47-84-Chloroaniline	460		i
i	87-68-3Hexachlorobutadiene	460	įυ	i
į	39-50-74-Chloro-3-Methylphenol	460	ίŪ	i
i	91-57-62-Methylnaphthalene	460	iŭ	
;	77-47-4			j
•	88-06-2	460	IU	
•	GROW-A	1100	iu	•
•	95-95-42, 4, 5-Trichlorophenol!	460	IU	•
:	91-58-72-Chioronaph thalene			•
Ĭ	88-74-42-Nitroaniline	1100	IU	i i
Ļ	131-11-3Dimethylphthalate	460	ĮŪ	*o \
ĭ	208-90-8Acenaphthylene	460	•	
ı	606-20-22.6-Dinitrotoluene	460	IU	地人
Ĭ.	AA-0A-57-WIELGBUITING	. 1100	IU	710
1	83-32-9Acenaph thene	460	IU	19.0

	• •		*		. cx	M56	
Lab N	ame: <u>Envirosys</u>	<u>Tems</u>	Contract:	68D10084	- !		
ULED C	ode: ENVSYS	Case No. : 20101	SAS No.:	· · · · · · · · · · · · · · · · · · ·	SDG No.:	CKMS	2_
Matri	x: (soil/water) SOIL	ı	Lab Sample	ID: <u>930</u>	60838	
Sampl	e wt/vol:	30.0 (g/mL) 6	'	Lab File ID	504	0838	
Level	: (low/med)	LOW		Date Receiv	ed: <u>06/</u>	03/93	
% Mai	sture: <u>29</u>	decanted: (Y/N)	<u>N</u>	Date Extrac		10/93	
Conce	ntrated Extrac	t Valume: <u>500.0</u>	(uL) I		4 7 1 T	29/93	
	tion Volume: _	* 1		Dilution Fa	• * •	· · · • · •	
•			and the second s	ATTACTED LE		<u> </u>	<u>.</u>
· GPC · C	leanup: (Y/N) <u>Y</u> pH: _		ENTRATION U	NITS:	e company	
•	CAS NO.	COMPOUND		er ug/Kg)		G	.a.
•			The state of the s		and the second	1	-1
ye e may see es	51-28-5	2,4-Dinitroph	enol		1100	10	ļ
	100-02-/	4-Nitrophenal			1100	IU	i
	132-04-7	Dibenzofuran_ 2,4-Dinitroto	1		440	.IU	ī
		Diethylphthal	TOENS		460 460	1U 1U	i
	7005-72-3	4-Chloropheny	1-02-02-10-2		460	10	•
	84-73-7	Flucrene	y-buend teeus		460	Ü	•
	100-01-4	4-Nitroanilin			1100	iŭ	•
	534-52-1	4,6-Dinitro-2	-methuloheno		1100	iu	i
		N-Nitrosodiph			,	iŬ	i
		4-Bramopheny 1			460		1
		Hexachloroben			460	1U	
ئار <u>د</u>	87-86-5	Pentachloroph	enol was a	Subsection of the Control		IU	1,
_	85-01-8	Phenanthrene_	in in growing of the	1 1 1	500	1	1
1	120-12-7	Anthracene	· · · · · · · · · · · · · · · · · · ·	<u> </u>	440	IU '	t
		Carbazole	e e e digelor indica	The second	460	10	1
		Di-n-Butylpht		<u> </u>	460	1U	1
Į.	-	Fluoranthene_		The same of the same of the	880	1	1
	754-00-0	Pyrene			340	IJ	1
		Butylbenzylph			460	IU	Ī
	91-94-1	3.3'-Dichlore	benzidine	and the second second	460	ĬΩ	I
, i	36-33-3	-Benzola)Anthr	acene		310	IJ	i
, į	518-01-2	Chrysene			320	i)	i
	117-01-7	bis(2-Ethylhe	zyljenenatat	·*¦	690	• • •	1
	11/-54-V	Di-n-Octyl Ph Benza(b)Fluor	£116 19 £6		460	ĮŪ	ì
		Benza(k)Fluor		 ;	600 460	iu	•
1		Benzo(a)Pyren		'	460	iÙ	ì
•	193-70-5	Indeno(1, 2, 3-	ed) Purana	Section with a section of	460	iŭ	i
1	53-70-2	Dibens(a, h)An	thracana v		460	10	
1	191-24-2	Benza(g, h, i)P	erulene % - 2		460	iŭ 🥕	1 R
\smile \cdot \cdot			ន្ង បានស្រាស់ (២៤ ស		1.2 × 2.3	1 0	$\overline{\mathcal{M}}_{\mathcal{O}}$
(separated from	Diphenylamin	10	*4.2	- u	42

EPA :	SAMPLE
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13 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET CXW27 Lab Name: ENVIROSYSTEMS Contract: <u>68010084</u> Case No.: 20101 SAS No.: Lab Code: ENVSYS. SDG Na.: CXW20 Lab Sample ID: 93060839 Matrix: (soil/water) SOIL Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5040839 Level: (low/med) LOW Date Received: 06/03/93 decanted: (Y/N) N_ 52 Date Extracted: 06/10/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93 Dilution Factor: ______1.0 Injection Volume: 2.0(uL) GPC Cleanup: pH: 7.8 (Y/N) Y CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KQ -: 108-95-2----Phenol_ 420 ľU ----bis(2-Chloroethyl)Ether___ 420 IU : 95-57-3----2-Chlorophenol_ 420 IU : 541-73-1-----1,3-Dichlorobenzene_ 420 IU 1 106-46-7-----1, 4-Dichlorobenzene_ 420 IU 95-50-1-----1, 2-Dichlorobenzene 420 IU 95-48-7-----2-Methylphenol___ 420 IU : 108-60-1----2, 2'-oxybis(1-Chloropropane)_ 420 IU | 106-44-5-----4-Methylphenol_ | 621-64-7-----N-Nitroso-Di-n-Propylamine_ | 67-72-1-----Hexachlorosthane_ | 98-95-3-----Nitrobenzene_ 320 IJ 420 IU 420 IU 420 10 : 78-59-1-----Isophorone____ 420 IU 1 88-75-5----2-Nitrophenol_ 420 IU i 105-67-9----2, 4-Dimethylphenol____ 420 IU : 111-91-1----bis(2-Chloroethoxy)Methane 420 IU 420 IU 1 120-82-1-----1, 2, 4-Trichlorobenzene_ 420 IU 420 10 420 lU IU 420 420 ----4-Chloro-3-Methylphenol__ IU 10 420 1 91-57-6----2-Methylnaphthalene_ 420 IU : 77-47-4------Hexachlorocyclopentadiene_ 420 IU | 88-06-2----2, 4, 6-Trichlorophenol_ : 95-95-4-----2, 4, 5-Trichlorophenol___ 1000 IU 420 IU 91-58-7----2-Chloronaphthalene : 88-74-4----2-Nitroaniline__ IU 1000 i 131-11-3----Dimethylphthalate 420 · IU 1 208-76-8-----Acenaphthylene____ 420 10 2.6-Dinitrotoluene 420 ; IU ----3-Nitroaniline____ 1000 1 99-09-2----420 | 83-32-9-----Acenaphthene_

FORM I SV-1

Lab	Name: ENVIROSY	STEMS	_ Contract! 68	· ;	! CXW27
		Case No.: 20101	•		Na : CKW20
· ·	ix: (soil/wate			Sample ID:	
* *	le wt/val:	30.0 (g/mL) G		File ID:	
•				4 ***	
Leve	l: (low/med) <u>COM</u>	Dat	e Received:	06/03/93
% Mo	isture: <u>22</u>	decanted: (Y/N) N_ Dat	e Extracted:	06/10/93
Conce	entrated Extra	ct Valume: 500.0	(uL) Dat	e Analyzed:	06/29/93
Inje	tion Volume:	2.0(uL)	Dil	ution Factor	r: 1.0
- GPC C	leanup: (Y/	N) <u>Y</u> pH:	<u>7.8</u>	en grande en en en en en en en en en en en en en	
-	CAS NO.	COMPOUND		RATION UNITS P ug/Kg) <u>ug</u> /	
	: 51-28-5	2,4-Dinitrop	henal	1 10	300 IU I
	100-02-7	4-Nitropheno	1		000 £ 1U
	1 132-64-9	Dibenzofuran			120 IU I
	1 121-14-2	2, 4-Dinitrot	alvene		
:	1 84-66-2	Diethylphtha	late		
٠.	1 7005-72-3	4-Chlorophen	ul-shenulether_	<u> </u>	120 IU I
\bigcup	1 86-73-7	Fluorene		<u>_</u> 1	120 IU I
ξ.	1 100-01-6	4-Nitroanili	πe	1	000 (IU I
	1 534-52-1	4,6-Dinitro-	2-methylphenol_		000 IU I
•		N-Nitrosodip			120 IU I
•	101-55-3	4-Bromopheny	1-phenylether		· · · ·
2	118-74-1	Hexachlorobe	nzene		120 IU I
•		Pentachlorop			
- 1		Phenanthrene			
4 		Anthracene			120 IU I
					120 JU J
	1 204-44-0	Di-n-Butylph Fluoranthene	eustacs.	t via vecci o TM	200 IBE 1 180 IJ 1
*	1 178-00-0			Andrew Control of the	120 10 1
•	1 85-48-7	Pyrene Buty1benzy1p	hthalata	:	120 10 1
	91-94-1	3,3'-Dichlor	chenzidine		20 10 1
	54-55-3	Benzo(a)Anth	Pacana	— ;	•
	216-01-9	Chrusene			120 IU I
	117-81-7	bis(2-Ethylh	exul)Phthalate		40 IJ I
	117-84-0	Di-n-Octul Pi	hthelate	<u> </u>	120 10 1
	205-99-2	Di-n-Octyl Pl Benza(b)Fluor	ranthene	<u></u>	170 IJ I
		Benzo(k)Fluo			
	50-32-8	Benza(a)Pure:	ne	1	120 IU I
1	193-39-5	Indeno(1, 2, 3	-cd)Pyrene	<u>- </u>	420 <u>(.</u> 10 - 1 ,
4	53-70-3	Dibenz(a, h)A	nthracene	<u>a da da da da da da da da da da da da da</u>	120 IU _ 友'
	191-24-2	Benzo(g.h.i)	Perulene	I is see a figure of the contract of the c	150 10 94
			A CONTRACTOR OF THE PARTY OF TH		
4	(1) - Cannot b	e separated from	Diphenylamine -	kanan a karaga sa sa Sa	~~~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

CXW27DL Lab Name: ENVIROSYSTEMS Contract: 68010084 Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CXWZ Matrix: (soil/water) SQIL Lab Sample ID: 93060839 - 1 a wt/vol: 30.0 (g/mL) G Lab File ID: 9060839D Date Received: (low/med) LOW ... 06/03/93 22 decanted: (Y/N) N Date Extracted: 06/10/93 % Moisture: Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93 Injection Volume: _____2.0(uL) Dilution Factor: ______ 2.0 GPC Cleanup: (Y/N) Y pH: 7.8 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG . @ 108-95-2----Phenol____ 850 IU : 111-44-4----bis(2-Chloroethyl)Ether____; 850 IU : 95-37-8----2-Chlorophenol____ 850 . IU : 541-73-1----1,3-Dichlorobenzene_ 850 IU 1 104-44-7-----1, 4-Dichlorobenzene 850 IU | 95-50-1-----1, 2-Dichlorobenzene___ 850 IU 1 95-48-7----2-Methylphenol____ 850 -10 : 108-60-1-----2, 2'-oxybis(1-Chloropropane)_! 850 IU 1 104-44-5----4-Methylphenol____ -230 LDJ | 621-64-7----N-Nitroso-Di-n-Propylamine___: 850 IU | 67-72-1----Hexachlorgethane____ 850 IU 850 1 98-95-3----Nitrobenzene IU 1 78-39-1----Isophorone 850 IU ! 88-75-5----2-Nitrophenol_ 850 lu 103-67-9----2, 4-Dimethylphenol____ 850 IU : 111-91-1-----bis(2-Chloroethoxy)Methane___! 850 10 | 120-83-2----2, 4-Dichlorophenal____ **B50** IU 850 IU ----Naphthalene___ : 91-20-3----Naphthalene____ : 106-47-8-----4-Chloroaniline___ 850 IU 850 IU 87-48-3-----Hexachlorobutadiene____ 850 IU -4-Chloro-3-Methylphenol____ 850 IU 1 59-50-7----! 91-37-6----2-Methylnaphthalene____ 850 10 1 77-47-4------Hexachlorocyclopentadiene___ 1 88-06-2-----2, 4, 6-Trichlorophenol____ 850 IU 850 . IU : 95-95-4-----2, 4, 5-Trichlorophenol____ 2100 1U : 91-58-7----2-Chloronaphthalene____ 850 IU 2100 IU | 68-74-4-----2-Nitroaniline___ : 131-11-3-----Dimethylphthalate____ 850 IU 1 208-96-8----Acenaphthylene 1850 · 1U 1 606-20-2----2, 6-Dinitrotoluene___ `850 IU 1 99-09-2-----3-Nitrosmiline_ 2100 - IU 850 IU 83-32-9----Acenaphthene FORM I SV-1

Lab N	lane:	ENVIROSY	STEMS	Contract: 680	110084	CKW27D
Lab C	adų:	ENSAR	Case No.: 20101	_ SAS No.:	SDG	No.: CKL
Matri	x: (s	cil/water) SOIL	Lab	Sample ID:	9306083
Sampl	e wt/	vel:	30.0 (g/mL) G		File ID:	<u>8060839</u>
Level	:	(low/med)	LOW	Date	Received:	06/03/9
% Moi	sture	:	decanted: (Y/N)	N_ Per Date	Extracted:	06/10/5
Conce	ntrat	ed Extrac	t Volume: <u>500.0</u>	Date	Analyzed:	06/29/5
Injec	tion	Valume: _	2. O(uL)	Dile	ition Factor	·:
GPC C	leanu	p: (Y/N	Ю <u>У</u> рН: _			
	CAS	NO.	COMPOUND		RATION UNITE	
•	CAS	NC.	COMPOUND	tug/L or	· ug/Kg) <u>UG/</u>	<u> </u>
•	,			•	<u> </u>	1
,	51-	28-5	2,4-Dinitroph	enol	_! 21	00 IU
	100	-02-7	4-Nitrophenol	Line of Paris	<u> </u>	100 IU
	1 132	-64-9	Dibenzofuran_	A Property of the Control of the Con	_	30 IU
*			2,4-Dinitrate			30 IU
· · · · · · · ·			Diethulphthal			30 IU
			4-Chloropheny			
	84-	73-7	Fluorene			30 10
	100	-01-A	4-Nitreanilin			00 IU
			4.6-Dinitro-2		,	00 10
			N-Nitrosodiph			
						
121	101	-55-3	4-Bromophenyl	_busuaterer		350 IU
	116.	-/4-1	Hexachloroben	sene	•	350 IU
	87-6	16-2	Pentachloroph	enol		00 IU
3			Phenanthrene_			30 IU
3			Anthracene			30 IU
			Carbasele			150 IU
	84-7	'4-2 	Di-n-Butylpht	helåte	<u></u> 1	OO IBD
1	206-	-44-0	Fluoranthene_		_	350 IU
- 1	129-	-00 -0	Pyrene	the transfer of the second	<u>-</u> l E	350 IU
	85-6	8-7	Butulbenzulah	thalate -	_	350 IU
	91-9	4-1	3,3'-Dichloro	benzidine	<u> </u>	350 łu
	54-5	4-7		25484	i talan a 🖊 🗭	350 IU
	218-	01-9	Chrysene	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>-</u> 1 -	350 IU
,	117-	81-7	bis(2-Ethylhe	rul)Phthalate.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	117-	R4-0	Di-n-Octyl Ph	thalatas : 2 4		
	205-	69-2	Benza(b)Fluar	enthene	- i	30 IU
	207-	.08-8	Benzo(k)Fluor	enthema vertices	The same and the same	
	EO/	7-9	Benic(a)Pyren			350 IU
s (_ 3U-3			T		
• • • •	173-	77-2	Indens(1, 2, 3-	eastale		350 IU
• (33-7	0-3	Dibenz (e. h) An Benzo (g. h. i) P	TRTACERE		150 IU
J , . I	171-	Z4-Z	Benzo(g, h, i)P	erylene		150 IU
			The state of the s			

13

SEMIUCLATILE ORGANICS ANALYSIS DATA SHEET

. SEMIVELATILE ERGANICS ANAL	-1212 DAIN SUEZI	, '7,.
₹		CXW28
Lab Name: ENVIRCSYSTEMS		SEPTU.
Lab Code: ENVSYS Case No.: 20101	SAS No.: SDG No	.: CXW20
Matrix: (soil/water) SOIL		3060840
Sample wt/vol: 30.0 (g/mL) G	· .	080840
Level: (low/med) LOW	Date Received: Q	6/03/93
Moisture: <u>29</u> decanted: (Y/N)	N_ Date Extracted: Q	6/10/93
concentrated Extract Volume: 500.0	_(uL) Date Analyzed: Q	6/28/93
Injection Volume:2,0(uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N) <u>Y</u> pH: _	7. 9	
en en en en en en en en en en en en en e	CONCENTRATION UNITS:	,
CAS NO. COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	. Q
 108-95-2Phenal		1 1
: 111-44-4		
95-57-32-Chloropheno	1 440	
541-73-11,3-Dichlorob	enzene 1 440	
1 106-46-71, 4-Dichloreb	enzene 440	· · ·
1 93-50-11, 2-Dichloreb	enzene 440	•
1 95-48-72-Methylpheno	11 440	
: 108-60-12, 2'-oxybis(1	-Chloropropane) 440	
1 104-44-34-Methylpheno	1 440	
621-64-7N-Nitrosa-Di-	n-Proculamine : 440	10 1
47-72-1Hexachloroeth	ane1 440	10 1
98-95-3Nitrobenzene_	11 , 440	10 1
1 78-59-1Isophorone	1 440	1U 1
1 88-75-52-Nitrophenol	1 440	1U · 1
1 105-67-92, 4-Dimethylp	heno11 440	10 1
1-11-91-1bis(2-Chloroe	thory)MethaneI 440	
1 120-83-22, 4-Dichlorop		
120-82-11, 2, 4-Trichlo	robenzene1 440	· -
91-20-3Naphthalene_		
106-47-84-Chloroanili	ne	
87-68-3Hexachlorobut		
59-50-74-Chloro-3-Me	thylphenol 440	
91-37-62-Methylnapht	halene	· -
1 77-47-4Hesachlorocyc	lopentadiene 440 rophenol 440	
88-04-22, 4, 6-Trichlo		
1 91-58-72-Chloronapht		
: 88-74-42-Nitreanilin		IV A
1 131-11-3Dimethylphtha		
: 208-96-8Acenaphthylen	140	* 1
606-20-22.6-Dinitroto	luene 440	الله مرادة
1 99-09-23-Nitrosnilin	1100	NINA W
: 83-32-7Acenaphthene_	440	IU TO A
· · · · · · · · · · · · · · · · · · ·		
# • . ▼ <u></u>		

FORM I SV-1

06303/4

 Lab	Naga. Shutshevet	EMS Car	48010084	SED-11
e vet				
			AS No : SDG	· · · · · · · · · · · · · · · · · · ·
Matr	ix: (soil/water)	SUIL	Lab Sample ID:	93060840
Samp	ie wt/vol: [[]]	30.0 (g/mL) 6	Lab File ID:	5080840
Leve	I: (low/med)	<u>rch</u>	Date Received:	06/03/93
. Z Mo	isture: <u>25</u>	decanted: (Y/N) N	Date Extracted:	06/10/93
r Conc	entrated Extract	Valume: <u>500.0</u> (uL)	Date Analyzed:	06/28/93
<u>L</u> Inje	ction Volume:	2.0(uL)	Dilution Factor	1.0
GPC (: Cleanus: (Y/N)	<u>у</u> рН: <u>7.9</u>	•	2
r (CONCENTRATION UNITE	
	CAS NO.	COMPOUND	(ug/L er ug/Kg) <u>UÇ</u>	<u>rkc</u> . G
-		2.4-Binitrophenol_		100 10 1
		4-Nitrophenol Dibenzofuran		100 IU I 140 IU I
.		2.4-Dinitrotoluene		140 IU I
		Diethylphthalate		140 IU I
-		4-Chlorophenyl-phe		40 IU
- ()	1 84-73-7	Fluorene		140 IU I
•. •	1 100-01-4	4-Nitroaniline		100 IU
		4,6-Dinitro-2-meth		100 10 1
	1 86-30-6	N-Nitrosodiphenyla	mine (1)	140 IU I
	1 101-55-3	4-Bromopheny1-phen	ylether!	140 IU I
	1 118-74-1	Hexachlorobenzene_	<u>, a la companya da mangantang at tanggan ang at tanggan ang at tanggan at tanggan at tanggan at tanggan at tang</u>	140 IU I
		Pentachlorophenol_		100 IU I
		Phenanthrene		140 IU I
	1 120-12-7			140 IU I
		Carbasole Di-n-Butylphthalat		140 (U I 140 (U I
	1 204-44-0	Fluorenthene		140 IU I 140 IU I
	129-00-0			140 IU I
	! 85-A8-7	Rutulhenzulehthala		40 IU I
•	1 91-94-1	Butylbenzylphthala 3,3'-Dichlorobenzi	dine	40 IU I
	56-55-3	Benzo(a)Anthracene	The state of the state of the state of	140 IU . I
_ i		Chrysene		140 IU I
)	1 117-B1-7	bis(2-Ethylhexyl)P	hthalate	230 IJ I
		Di-n-Octyl Phthale		140 TU T
.	1 205-99-2	Benzo(b)Fluoranthe	ne	140 IU I
	1 207-08-9	Benzo(k)Fluoranthe	Re	140 IU I
	1 50-32-8	Benzo(a)Pyrene <u>l (a)</u>	e digital graph a demokratika mendenden berenden berenden berenden berenden berenden berenden berenden berende	140 IU I
	1 /\{07_70_50	fedaga/f./5.7_2_/d19w	■異異異(Single Modern Ciffe)という。 19 10 12 12 12 12 12 12 12 12 12 12 12 12 12	140 IU d
	1 : 53-70-3	Dibenz (a. h) Anthrac	ene management	140 IN "DAV
	1 191-24-2	Benzo(g.h.i)Peryle	ON ON THE STATE CONTROL OF THE STATE OF THE	140 IU
		separated from Diphe		- स्टि
	· · · · · · · · · · · · · · · · · · ·	sahaharaa Liam nihus	ny sambita	of hat
	e administração de proprieda que transfer a la estada de la comprehensa del comprehensa de la comprehensa de la comprehensa del comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehensa de la comprehens	FORM I		3/5
•	000304 nage	97	AR000303	0,931
	A SHALL TOOLSON	. / 7 /	7.1.00000	

18 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

12012

Lab Name: <u>ENVIROSYS</u>	TEMS Car	ntract: <u>63010084</u>	CXM53
Lab Code: <u>Envgyg</u>	Case No.: 20101 5	AS No.:SD	G No. : CKWZ
Matrix: (soil/water) SOIL	Lab Sample ID	93060841
Sample wt/vol:	30.0 (g/mL) Q	Lab File ID:	5060841
Level: (low/med)	<u>rom</u>	Date Received	: 06/03/93
% Moisture: 19	decanted: (Y/N) N	Date Extracte	d: <u>06/10/93</u>
Concentrated Extrac	t Volume: <u>500.0</u> (uL)) Date Analyzed	: 06/28/93
Injection Volume: _	2. 0(uL)	Dilution Fact	or: <u>1.0</u>
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7. 7</u>		•
CAS NO.	COMPOUND	CONCENTRATION UNI	
108-93-7	Phenol		410 10 1
111-44-4	bis(2-Chlorosthyl)	Ether	410 IU I
	2-Chlorophenol		410 IU I
: 541-73-1	1,3-Dichlorobenzen	1	410 IU I
1 106-46-7	1.4-Dichlorobenzen	i e !	410 IU I
; 95-50-1	1.2-Dichlorobenzen	! • !	410 IU
: 95-48-7	2-Methylphenol		410 IU V
	2,2'-oxybis(1-Chlo		410 IU I
106-44-5	4-Methylphenol		410 IU I
1 041-04-/	N-Nitroso-Di-n-Pro	barwaria	410 10 1
1 00-05-7	Hexachloroethane Nitrobenzene		410 IU I
79-59-1			410 IU I
1 88-75-5	Isophorone		410 IU I
! 105-A7-9	2, 4-Dimethylphenol		410 IU I
! 111-91-1	bis(2-Chloroethoxy	Methane	410 IU I
120-83-2	2.4-Dichlorophenal		410 IU I
1 120-82-1	1.2.4-Trichloroben	zene	410 IU I
1 91-20-3	Nashthalene	The second secon	410 IU I
! 10A-47-Fi			410 IU I
1 87-68-3	Hexachlorobutadien		410 IU I
1 59-50-7	4-Chloro-3-Methylp	henol!	410 IU I
91-57-6	2-Methylnaphthalen	•	410 IU I
1 77-47-4	Hexachlorocyclopen	tadiene!	410 IU I
1 88-04-2	2.4.6-Trichlorophe	no1I	410 IU I
1 95-95-4	2, 4, 5-Trichlaraphe	no1I	990 IU I
1 91-38-7	2-Chloronaphthalen	•	410 IU I
1 88-74-4	2-Nitroaniline		990 IU I
131-11-3	Dimethylphthalate_	San Pitch Tark American	410 10 500
1 208-96-8	Acenaphthylene	the state of the s	410 IU 6
404-20-2	z, 6-Dinitrotaluene	 Service of the Service	410 : IU
1 33-03-5			990 IU 1486
. i ! #ilaiza4aaaaa	Acenaph thene		410 10 70

EPA SAMPLE SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET CXW29 Contract: 68010084 Lab Name: ENVIROSYSTEMS P 1 - 1 Lab Code: ENVSYS Case No. : 20101 SAS No. : SDG No. : CKWZO Lab Sample ID: 93060841 Matrix: (soil/water) SOIL 30.0 (g/mL) G Lab File ID: Sample wt/vol: 5060841 Date Received: Level: (low/med) LOW 06/03/93 decented: (Y/N) N Date Extracted: 06/10/93 15 The state of the s Concentrated Extract Volume: 500.0 * (uL) Date Analyzed: 06/28/93 Injection Volume: _______ 2.0(uL) Dilution Factor: GPC Cleanup: (Y/N) Y pH: <u>7.7</u> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> 1 51-28-5----2, 4-Dinitrophenol____ 990 IU | 100-02-7----4-Nitrophenol____ 990 IU 1 132-64-9-----Dibenzofuran____ 410 IU 121-14-2----2, 4-Dinitrotoluene_ 410 ľU : 84-66-2----Diethylphthalate____ 410 IU 1 7005-72-3----4-Chlorophenyl-phenylether___! 410 IU 86-73-7------Fluorene_ 410 IU | 100-01-6----4-Nitroaniling____ 990 IU 1 534-52-1----4.6-Dinitro-2-methylphenol___ 990 IU | 86-30-6----N-Nitrosodiphenylamine (1)___| 410 IU 1 101-55-3-----4-Bromophenyl-phenylether____t 410 IU 1 118-74-1----Hexachlorobenzene 410 IU : 87-86-5----Pentachlorophenol___ 990 IU I 85-01-8-----Phenanthrene 410 IU | 120-12-7-----Anthracene 410 10 -Carbazole__ 410 IU I 84-74-2-----Di-n-Butylphthalate_ 2500 18 ----Fluoranthene

(1) - Cannot be separated from Diphenylamine

--Chrusene____

1 207-08-9----Benzo(k)Fluorenthene_____1

--Benzo(a)Anthracene_

1 117-81-7-----bis(2-Ethylhexyl)Phthalate___!

| 50-32-8----Benza(4)Pyrene_____

้ กูยูรั่ว

410

410

410

410

410

180

410

410

140

410

410

410

IU

IU

IU

IU

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IU

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IU

IJ

IU

IU

IU IU

1 191-24-2---Benzo(g.h.i)Perylene

and the second of the second of the second of the second of the second of the second of the second of

1 206-44-0---

1 218-01-9----

1 91-94-1

1 56-55-3-3-

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

EPA SAMPLE

CXM30 Contract: 68010084 Lab Name: ENVIROSYSTEMS Casa No.: 20101 SAS No.: SDG No. : CKWL Lab Coda: ENVSYS_ Matrix: (soil/water) SOIL Lab Sample ID: 93060842 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060842 Level: (low/med) LOW Date Received: **26/03/93** ·_**53** Date Extracted: 06/10/93 decanted: (Y/N) N___ Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93 Injection Volume: _____2.0(uL) Dilution Factor: GPC Cleanup: (Y/N) Y pH: <u>7.2</u> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG . 700 IU ----bis(2-Chloroethyl)Ether___ 700 IU | 95-57-8----2-Chlorophenol____ 700 IU 700 IU 700 IU | 95-50-1-----1, 2-Dichlorobenzene_ 700 IU | 95-48-7----2-Methylphenol_ 700 IU 1 108-60-1----2, 2'-oxybis(1-Chloropropane)_[700 IU 1 104-44-5----4-Methylphenol 710 ı | 621-64-7----N-Nitroso-Di-n-Propylamine___| 700 IU 1 67-72-1------Herachloroethane____ 700 IU 1 78-75-3------Nitrobenzene 700 lu 700 ----Isophorone____ IU lÜ | 88-75-5----2-Nitrophenol____ 700 700 1 105-67-9-----2,4-Dimethylphenol___ เบ -bis(2-Chloroethoxy)Methane_ 700 IU : 120-83-2----2, 4-Dichlorophengl____ 700 IU 700 IU 91-20-3 106-47-6 ----Naphthalene___ 700 10 ----4-Chloroaniline 700 IU 1 87-68-3133--700 IU ---Hexachlorobutadiene<u>:</u> ---4-Chloro-3-Methylphenol____ 700 IU 1 59-50-7----700 | 91-57-6----2-Methylnaphthalene____ 10 -----Hexachlorocyclopentadiene__ 700 IU 700 1 88-04-2-------2,4,6-Trichlorophenol____ IU 1 95-95-4-----2.4.5-Trichlarophenol__ 1700 IU. ----2-Chloronaphthalene___ 700 10 1 91-38-7--1700 10 1 88-74-4-------2-Nitroaniline___ ----Dimethylphthalate____ 700 IU -Acenaphthylene - Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Commence | Comm 700 1 208-94-8---IU 2. 4-Dinitrotoluene 700 1U 1 404-20-2------3-Nitroaniline____ . 1700 - IU 700 -Acenaphthene_ FORM I SV-1

		: 1	♦		CXM30 _
Lab	Name: ENVIROSYST	EMG	Contract: 6801	0084	SED 73
Lab	Code: ENVSYS	Case No.: 20101	SAS No.:	526 /	16. : CXW20
Mati	rix: (soil/water)	SOIL .	Lab S	ample ID:	73060842
- Sam	ple wt/vol:	30.0 (g/mL) 6	Lab F	ile ID:	\$ 060842
· · · · · ·	_			Réceived:	
	•		•		06/03/93
_	oisture:53	decanted: (Y/N)	N Date	Extracted:	06/10/93
Cana	entrated Extract	Valume: 500.0	(uL) Date	Analyžed:	06/29/93
Inje	ection Volume: 🔼	2.0(uL)	Dilut	ion Factor:	1.0
- GPC	Cleanup: (Y/N)	Y oH:	7.2		
-(CONCENTRA	TION UNITS:	
ı	CAS NO.	COMPOUND	(ug/L or	na\xa) <u>ne\x</u>	<u>.e</u> . e
•				1	1
_	1 51-28-5	2.4-Dinitroph	enol	170	
_	1 100-02-7	4-Nitraphenal	·	170	
•	132-64-9	Dibeniofuran_		70	
	1 64-44-2		luene		0 10 1
 *	1 7004-72-3		1-phenylether	1 70	
- , , , ,	B6-73-7		T_buendraeuer	70	
	1 100-01-6	4-Nitreanilin		170	
			-methylphenol		o iu i
-			englamine (1)		7
•	1 101-55-3	4-Bremopheny 1	-phenulether	1 70	0 IU I
(1 118-74-1	Hexachloroben	zene		1 UI 2.0
	1 87-86-5	Pentachloroph	enol	1 170	10 1U I
	85-01-8	Phenanthrene_		1	1J 1J
	1 120-12-7	Anthracene		1	10 : 10 · 1 ·
•	86-74-8 	Carbazola	g	1 70	o jiu i
2	1 84-74-2	Di-n-Butylpht	halate	In	0 10 1
-	1 206-44-0	Fluoranthene_	•	1	0 1
_	1 129-00-0	Pyrene	and the second s	1 30	
•	85-68-7	ButyIbenzyIph	thelate	70	
•	91-94-1	3.3'-Dichloro	benzidine	1	0 10 1
	1 56-55-3	Benzo(a)Anthr	acene	1	10 IJ I
	1 216-01-9	Chrysene		34	0 13 1
	1 117-81-7	B18(2-F10A1U6	XATINUEDSTREE		0 IJ I
4	1 117-84-0	D1-N-UCTY1 PN	TRAIATE	} : a	
•	1 205-99-2			tion in the second section is a second second second second second second second second second second second se	
1	1 50-33-9		enthene	· 70	
	1 193-39-5		418	1	
u .	1 53-70-3		threease	1 70	
· 🗨	1 191-24-2		aru laga	. 70	
$1. \bigcirc 10^{-1}$	1	series Ai ui eit			Specific 1
	(1) - Cannot be	separated from		· · · · · · · · · · · · · · · · · · ·	7/8/2
			e em romanta e em estreta do la constanta de la constanta de la constanta de la constanta de la constanta de l Manda de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la co		dDi
	1	F	orm I SV-2	(1997- 2/9
•	THE BURNINA	•	ARO	00307 `	· · · · · · · · · · · · · · · · · · ·
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SEMIVULATILE ERGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1EWX3

Lab Name: ENVIROSYSTEMS Contract: 68010084 |

Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CKW20

Matrix: (soil/water) <u>SCIL</u> Lab Sample ID: <u>93060843</u>

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060843

Level: (low/med) <u>LCW</u> Date Received: <u>06/03/93</u>

% Moisture: <u>18</u> decanted: (Y/N) <u>N</u> Date Extracted: <u>06/10/93</u>

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO. COMPOUND CURL OF US/Kg) US/KG Q

	· · · · · · · · · · · · · · · · · · ·		•	•
; -	108-95-2	1 400	1 1U	1
•	111-44-4	400	iÜ	1
•	93-37-82-Chlorophenol	1 400		•
	541-73-1i, 3-Dichlarabenzene	400	iŭ	1
	104-44-7	400	iÜ	i
i	95-50-11, 2-Dichlorobenzene	400	iŭ	i
1	95-48-72-Methulphenol	400	iu	i
	108-60-12, 2'-exubis(1-Chlorogropane)	-	iŭ	$: \bigcup$
	106-44-54-Methylphenol	400	ιŭ	i
	621-64-7N-Nitroso-Di-n-Propulamine		iŭ	i
-	67-72-1Hexachloroethane	400		i
	78-95-3Nitrobenzene	1 400		i
•	78-59-1isophorone	400	- -	i
•	38-75-32-Nitrophenol	1 400	IÜ	i
	105-67-92, 4-Dimethylphenol	400	iŭ	i
	111-91-1bis(2-Chloroethoxy)Methane		IU	i
	120-83-22, 4-Dichlorophenol		ĬŬ	i
	120-82-11, 2, 4-Trichlorobenzene		iŬ	ì
	71-20-3Naphthalene		់បែ	i
	104-47-84-Chloroaniline	400	ÌÜ	1
•	7-68-3Hexachlorobutadiene	400	IU-	i
•	59-50-74-Chloro-3-Methulphenol	1 400	ίŪ	1
	71-57-62-Methylnaphthalene	1 400	10	
•	77-47-4Hexachlorocyclopentadiene		ΙŪ	1
i	38-04-22, 4, 4-Trichlorophenol	1 400	ĬŬ	i
	75-75-42, 4, 5-Trichlorophenol		ĬŨ	i
	71-58-72-Chloronaphthalene		ΙÜ	i
	88-74-42-Nitroaniline	980	10	1
	31-11-3Dimethylphthalate	400	10	İ
	208-96-8Acenaphthylene	400	iŭ	i.
	06-20-22, 6-Dinitrotoluene	1 400	Tiu 🔻	1_0
	7-07-23-Nitroaniline	-	/ IU *	1
	3-32-7Acenaphthene	400	14 4	i 💛
•	io op v i i i i i i i i i i i i i i i i i i		1105	, 5

10 SEMIUCLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CKW31 Lab Name: ENVIROSYSTEMS Contract: <u>68010084</u> Case No. : 20101 SAS No. : SDG No.: CKW20 . Code: ENVSYS Matrix: (soil/water) <u>SOIL</u> Lab Samole ID: 93060843 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060843 LOW Level: (low/med) Date Received: 06/03/93 decanted: (Y/N) N Date Extracted: 06/10/93 18 % Moisture: Concentrated Extract Volume: 500.0 (UL) Date Analyzed: 06/29/93 Injection Volume: _____2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) Y pH: 7.8 CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> CAS NO. COMPOUND : 51-28-5----2,4-Dinitrophenol____ 10 980 ! 100-02-7-----4-Nitrophenol____ 980 IU : 132-64-9-----Dibentofuran___ 400 IU 400 : 121-14-2----2, 4-Dinitrotoluene___ IU 400 : 84-66-2----Diethulphthalate IU : 7005-72-3----4-Chlorophenyl-phenylether___ 400 IU 1 84-73-7-----Fluorene____ 400 10 | 100-01-6-----4-Nitroeniline____ 780 IU IU : 534-52-1----4,6-Dinitro-2-methylphenal____! 980 IU | 86-30-6-----N-Nitrosodiphenylamine (1)___ 400 400 10 : 118-74-1----Hexachlorobenzene 400 1U 1 87-86-5----Pentachlorophenol____ 980 1U | 85-01-8----Phenanthrene____ 150 .IJ 400 JU 1 120-12-7-----Anthracene____ 1 84-74-8------Carbatole_ -400 : 84-74-2----Di-n-Butylphthalate____ × 180 IBJ 170 NJ | 129-00-0-----Pyrene____ 400 ----Butulbenzylphthalate_ : 85-68-7% 91-94-1 ---+3,3'-Dichlorobenzidine_____| 400 250 1 56-55-3 ----Benzo(a)Anthracene___ 1 , ... 200 -Chrusene_ 310 400 630 1 ...400 . HU 1 207-08-9----Benzo(k)Fluoranthene 400 JU | 50-32-8-----Benic(a)Pyrene____ 400 IU 1 193-39-5----Indeno(1, 2, 3-cd)Pyrene____ 400 10 - 400 - IU : " | 191-24-2----Benzo(g, h, i)Perylene <u>** . *****</u>

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

(112 41/16 SA

Soil 2

PA SAMPLE NO

CKM35

Lab Name: ENVIROSYSTEMS Contract: 68010084

Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDO No.: CXW20

Matrix: (soil/water) <u>SOIL</u> Lab Sample ID: <u>93060844</u>

Sample wt/vgl: 30.0 (g/mL) G Lab File ID: 5060844

Level: (low/med) <u>LOW</u> Date Received: <u>06/03/93</u>

% Moisture: <u>12</u> decanted: (Y/N) <u>N</u> Date Extracted: <u>06/10/93</u>

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/93

GPC Cleanup: (Y/N) Y pH: 3.0 CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) Ug/Kg - Q

			•
			1
108-95-2	Phenol	370	IU I
111-44-4	bis(2-Chloroethyl)Ether	370	IU I
95-57-8	2-Chlorophenol;1.3-Dichlorobenzene	370	ip i
341-73-1	1.3-Dichlorobensene	370	10 1
106-46-7	1, 4-Dichlorobenzene1	370	IU I
: 95-50-1 -	1, 2-Dichlorobenzene!	370	10 1
95-48-7	2-Methylphenol	370 '	יו טו
	2.2'-oxybis(I-Chloropropane)_!		IU I
104-44-5	4-Mathylphenol	370	10 1
621-64-7	N-Nitrosa-Di-n-Propylamine	370	1U 1
6/-/2-1		370	IÚ I
98-95-3	Nitrobenzene <u>ne de la constant</u> i	370	IU I
78-39-1	Isophorone1	v 370	10 1
88-73-5	2-Nitrophenoli	370	10 - 1
105-47-9	2.4-Dimethylphenol	370	10
111-91-1	bis(2-Chloroethory)Methane	370	10
120-83-2	2,4-Dichlorophenol		IU I
120-82-1	1, 2, 4-Trichlorobenzene	370	IU i
91-20-3	Nanhthal and second	370	iu i
104-47-6		370	iŭ i
97_48_7	Hexachlorobutadiene	7 370	iŭ i
	4-Chlora-3-Methylphenel	370	iŭ
91-17-4	2-Methylnaphthalene		iŭ
77-47-4		370 370	iŭ i
77-47-4	Hexachiorocyclopentadiene	370	iŭ i
88-09-5	2.4.6-Trichlorophenol	910	iŭ i
93-93-4	2, 4. 5-Trichlorophenol	710	10 - a8
91-58-7	2-Chloronaphthalene	370	- 77-1-
	2-Nitroaniline	· = -	in H,
131-11-3	Dimethylphthalate	370	וט
208-96-8	Acenaphthylene	370	in MASK
606-20-2		3/0	in do
44-04-5		7.0	
83-32-7	Acenaph thene1	370	10 1
	Section 1981 Annual Control of the C	_	التصمية

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CKW32 4.4.4 Lab Name: ENVIROSYSTEMS Contract: <u>68010084</u> ごロドータ Case No. : 20101 SAS No. : _____ / Code: <u>ENVSYS</u> SDG No. : CKWZO Matrix: (soil/water) SCIL_ Lab Sample ID: 93060844 Sample wt/vol: 30.0 (g/mL) <u>G</u> Lab File ID: 5060844 Level: (low/med) LCM_ Date Received: 06/03/93 decanted: (Y/N) N % Moisture: - 12 Date Extracted: 06/10/93 Concentrated Extract Volume: 500.0. (uL) Date Analuzed: 06/29/93 Injection Volume: _____2,0(uL) Dilution Factor: _____1.0 GPC Cleanup: (Y/N) Y pH: _8.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG - Q : 51-28-5----2, 4-Dinitrophenol____ !U 910 : 100-02-7----4-Nitrophenol__ 910 IU : 132-64-9-----Dibenzofuran___ 370 IU : 121-14-2----2, 4-Dinitrotoluene____ 370 IU : 84-66-2----Diethylphthalate 370 IU i 7005-72-3----4-Chlorophenyl-phenylether_ 370 IU : 86-73-7-----Fluorene___ IJ 110 910 IU : 534-52-1----4, &-Dinitro-2-methylphenol___ 910 :U : 66-30-6-----N-Nitrosodiphenylamine (1)____! 370 : U : 101-55-3-----4-Bromophenyl-phenylether____ 370 U : 118-74-1-----Hexachlorobenzene____ 370 : U : 87-86-5-----Pentachlorophenol___ IU 1910 : 85-01-8-----Phenanthrene___ 1200 1 : 120-12-7-----Anthracene_ 190 1 1 140 IJ : 84-74-2-----Di-n-Butylphthalate___ B 1100 2000 740 1 1 65-68-7-----Butylbenzylphthalate_ 370 1U 370 10 910 1 218-01-9-----Chrysene 740 IJ 1 117-81-7-----bis(2-Ethylhexyl)Phthalate_ 110 370 IU : 117-84-0----Di-n-Octul Phthalate___ 1900 1 205-99-2----Benzo(b)Flucranthene____ : 207-08-9----Benzo(k)Fluoranthene__ 370 IU 200 : 50-32-8-----Benzo(a)Fyrene____ IJ : 193-39-5-----Indeno(1, 2, 3-cd)Pyrene___ 140 IJ : 53-70-3------Diben:(a,h)Anthracene__ 370 "IU 370 IU ; 171-24-2----Benzo(g,h,i)Perulene_ (1) - Cannot be separated from Diphenylamine

FORM I SV-2

210490115

1111 3/90

FORM I SV-1

: 91-58-7-----2-Chloronaphthalene

----Acenaphthene_

: 88-74-4-----2-Nitroaniline_

1 83-32-9--

-: 131-11-3------Dimethylphthalate__

: 208-96-8-----Acenaphthylene___

1 + 26 10 8 10

11791 AR000312

400

780

400 ... IU 400

400 ... IU

980 ... IU 400

IU

IU

IU

FORM I SV-2

1180 3/90

A Stading

CKW34 __ Contract: 68D10084 Lab Name: ENVIROSYSTEMS Case No.: 20101 SAS No.: ____ SDG No.: CKW20 (Lab Code: ENVSYS Matrix: (soil/water) SCIL . Lab Sample ID: 93060846 Sample wt/vol: _30.0 (g/mL) G Lab File ID: 3060846 Level: (low/med) LOW Date Received: 06/03/93 Date Extracted: 06/10/93 _____9 decanted: (Y/N) N___ % Moisture: Concentrated Extract Volume: 500.0 (uL) Data Analyzed: 06/28/93 Injection Volume: _____2.0(uL) Dilution Factor: _____1.0 GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7.7</u> CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> CAS NO. COMPOUND G 1. : 108-95-2------ Phenol IU 350 : 111-44-4-----bis(2-Chloroethyl)Ether____ IU 340 340 1 95-57-8-----2-Chlorophenol____ IU · : 541-73-1-----1,3-Dichlorobenzene_ 340 IU 340 IU : 95-50-1-----1.2-Dichlorobenzene_ 340 IU : 95-48-7-----2-Methylphenol_ IU 340 : 108-40-1-----2, 2'-oxybis(1-Chloropropane)_! IU 340 : 106-44-5----4-Methylphenol_ 340 IU : 621-64-7----N-Nitroso-Di-n-Propylamine__ 340 10 : 67-72-1-----Hexachloroethane 340 · 10 : 98-95-3-----Nitrobenzene___ 340 IU . 360 : 78-59-1-----Isophorone_ - I U 1 340 · IU : 88-75-5-----2-Nitrophenol_ 340 tu . | 105-67-9----2,4-Dimethylphenol__ : 111-91-1----bis(2-Chloroethoxy)Methane 360 IU : 120-83-2----2, 4-Dichlorophenol____ 340 IU 340 10 340 9 IU : 91-20-3-------Naphthalene_ IU : 106-47-6--- ----4-Chloroaniline_ 340 : 87-68-3------Hexachlorobutadiene___ IU 340 : 59-50-7----4-Chloro-3-Methylphenol___ 340 IU 91-57-6----2-Methylnaphthalene___ IU 340 : 77-47-4-----Hexachlorocyclopentadiene 340 IU IU : 88-04-2----2,4,4-Trichlorophenol__ 340 IU : 95-95-4-----2.4.5-Trichlorophenol____ 880 : 91-58-7----2-Chloronaphthalene___ 340 IU 880 10 : 88-74-4----2-Nitroaniline____ 340 10 : 131-11-3-----Dimethylphthalate 1 208-96-8-----Acenaphthylene 360 IU IU. 340 | 606-20-2----2, 6-Dinitrotoluene__ IU - 880 1 99-09-2-----3-Nitroaniline : 83-32-9-----Acenaphthene____ FORM I SV-1

w.,		ince outline withe	TOTO DATA GIREET	,
Lab	Name: <u>ENVIROSY</u>	STEMS	Contract: <u>68D10084</u>	CKW34
	Cada: EMUCYC	Na 20101	SAS No.:	SDG No. : CKW20
	C048. <u>2:77373</u>	C258 140 <u>20101</u>	3A3 No	SDG NO. : CAREO
ma tr	ix: (soil/water	r) <u>SCIL</u>	Lab Sample	ID: <u>93060846</u>
Samp	le wt/vol:	30.0 (g/mL) G	Lab File ID	: 5060846
Leye	l: (law/med)	<u>rem</u>	Date Receiv	ed: <u>06/03/93</u>
& Mo	isture: 9	decanted: (Y/N)	N Date Extrac	ted: <u>06/10/93</u>
Conc	entrated Extra	t Volume: 500.0	_(uL) Date Analyz	ed: <u>06/28/93</u>
lnje	ction Volume:	2.0(uL)	Dilution Fa	ctor:1.0
PC (Cleanup: ' (Y/N	() <u>Y</u> pH: _3		
	CAS NO.	COMPOUND	CONCENTRATION U (ug/L or ug/Kg)	
٠.	1		<u> </u>	
	: 51-28-5	2.4-Dinitrophe	enoll	880 IU : I
	100-02-7	4-Nitrophenol_		680 IV I
	1 132-64-9	Dibenzofuran_	<u> </u>	360 IU I
	121-14-2	2,4-Dinitrata	luene!	340 IU I
	1 84-66-2	Diethylphthala	ite;	360 IU I
	1 7005-72-3	4-Chlorophenyl	l-phenylether	340 IU I
	1 86-73-7	Fluorene		360 IU I
,	1 100-01-6	4-Nitroaniline	<u>and the second </u>	880 . IU I
	1 534-52-1	4,6-Dinitro-2-	-methylphenol!	
	1 86-30-6	N-Nitrosodiphe		360 IU: I
	1 101-55-3	4-Bromaphenyl-	phenyletheri	360 IU I
	1 118-74-1	Hexachlorobenz	enei	360 IU I
	1 87-84-5	Pentachlorophe	no11	. E80 1U 1
	: 85-01-8	Phenanthrene_		
	1 120-12-7	Anthracene		360 10 1
	86-74-8	Carbazole		360 IU I
	1 84-74-2	Di-n-Butylphth	alate	300 IBJ !
	: 204-44-0	Fluoranthene		360 IU I
	1 129-00-0	Pyrene	The second secon	360 IU I
	1 85-48-7	Butylbenzylpht	halattl	360 IU I
	; 91-94-1 	3,3'-Dichlorab	enzidine	360 IU I
	56-55-3	Benzo(a)Anthra	icene	340 IU I
	: 218-01-9	Chrysene	and the second second	360 IU I
			(y1)Phthalate	120 IJ
	117-84-0	Di-n-Octyl Pht	halate	360 10
	205-99-2	Benzo(B)Fluora	inthene	360 IU
	207-08-9	Benzo(k)Fluora	inthene	360 IU I
	50-32-6	Benzo(a)Pyrene	Service Control of th	
	193-39-5	Indeno(1,2,3-c	d)Pyrene	340 IN 4 M
	1 53-70-3	Dibenz(a,h)Ant	hracene	
				340 IU 1
**************************************	191-24-2 	Benza(g,h,i)Pe	LA TALLA TOTAL	<u> </u>

FORM 1 SU-2

1222 3/90

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET Soils. CKW35 4 Contract: <u>68010084</u> Lab Name: ENVIROSYSTEMS Case No. : 20101 SAS No. : _____ SDG No. : CXW20 Lab Code: ENVSYS_ Matrix: (soil/water) SOIL Lab Sample ID: 93060847 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060847 (low/med) <u>LOW</u> Level: Date Received: 06/03/93 _ 21 decanted: (Y/N) N___ % Moisture: Data Extracted: 06/10/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/28/93 Dilution Factor: _____1.0 GPC Cleanup: (Y/N) Y pH: 7.2 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L ar ug/Kg) UG/KG | 108-95-2----Phenol_ 420 IU 420 : 111-44-4-----bis(2-Chloroethul)Ether___ IU ! 95-57-8-----2-Chlorophenol__ 420 10 420 : 541-73-1-----1, 3-Dichlorobenzene IU 420 10 1 95-50-1------1, 2-Dichlorobenzene_ 420 IU : 95-48-7-----2-Methulphenol_ 420 10 1 108-60-1----2, 2'-exybis(1-Chloropropane)_! 420 IU ! 106-44-5----4-Methylphenol____ 420 IU : 621-64-7----N-Nitroso-Di-n-Propylamine_ 420 tU : 47-72-1----Herachloroethane 420 IU : 98-95-3-----Nitrobenzene____ 420 10 420 1 78-59-1------Isophorone___ IU : 88-75-5-----2-Nitrophenol____ 420 IU 105-67-9----2,4-Dimethulphenol____ 420 IU ! 111-91-1----bis(2-Chloroethoxy)Methane_ 420 l U : 120-83-2----2, 4-Dichlorophenol : : 420 U 420 | 120-82-1-----1, 2, 4-Trichlorobenzene____| 10 420 IU | 91-20-3-----Naphthalene_ 420 ! 104-47-8------4-Chloroaniline___ IU -: 87-68-3-----Hexachlorobutadiene_ 420 U 420 IU : 59-50-7-----4-Chloro-3-Methylphenol___ : 91-57-6----2-Methylnaphthalene_ 420 IU !U : 77-47-4-----Hexachlordcyclopentadiene___ 420 1 88-06-2----2, 4, 6-Trichlorophenol____ 420 IU 1 95-95-4----2, 4, 5-Trichlorophenol____ 1000 U : 91-58-7----2-Chloronaphthalene____

FORM I SV-1

| 131-11-3-----Dimethylphthalate____

3 3-32-9-----Acenaphthene

1 404-20-2-----2, 4-Dinitrotoluene____

: 88-74-4----2-Nitroaniline_

: 208-94-8----Acenaphthylene____

1.99-09-2----3-Nitroaniling___

นายเป็นสี

420

1000

420

420

420

1000

420

1254

IU

!U

:U

IU

IU

IU

IU

CKW35 Lab Name: ENVIROSYSTEMS Contract: 68010084 SDIL- S Case No.: 20101 SA5 No.: SDG No.: CKH20 ab Code: ENVSYS Matrix: (soil/water) SCIL Lab Sample ID: 93060847 Lab File ID: Sample wt/vol: _30.0 (g/mL) G 5060847 Level: (low/med) LOW Date Received: 06/03/93 % Moisture: 21 decanted: (Y/N) N Date Extracted: 06/10/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/28/93 Dilution Factor: ______1.0 . Injection Valume: _____ 2.0(uL) pH: <u>7.2</u> GPC Cleanup: (Y/N) Y__ CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/KG | 51-28-5----2, 4-Dinitrophenol_____ 1000 - IU | 100-02-7----4-Nitrophenol____ ---1000 · IU : 132-64-9-----Dibenzofuran_ 420 1 121-14-2----2, 4-Dinitrotoluene 420 IU : E4-66-2-----Diethylphthalate_ 420 IU : 7005-72-3----4-Chlorophenyl-phenylether___ 420 IU 1.86-73-7-----Fluorene_ 420 IU : 100-01-6----4-Nitroaniline____ 10 1000 : 534-52-1----4, 6-Dinitro-2-methylphenol___ 1000 -10 : 86-30-6-----N-Nitrosodiphenylamine (1)___ 420 10 : 101-55-3----4-Bromophenyl-phenylether____ 420 IU : 118-74-1-----Hexachlorobenzene____ 420 IU 10 : 87-86-5----Pentachlorophenol__ 1000 : 85-01-8-----Phenanthrene___ · 420 !U 420 -4U : 120-12-7-----Anthracene_ 10 420 | 86-74-8-----Carbazole____ -----Di-n-Butulphthalate_ 420 -10 420 IU | 206-44-0----Fluoranthene____ 420 IU | 129-00-0----Purene_ 420 IU -----3,3'-Dichlorobenzidine__ 420 IU 420 IU 420 - 10 : 218-01-9----Chrysene_ : 117-81-7----bis(2-Ethylhexyl)Phthalate_ ~~ · 140 IJ : 117-84-0----Di-n-Octyl Phthalate: 420 IU 420 IU : 205-99-2----Benzo(b)Fluoranthene_ 420 10 ! 207-08-9-----Benzo(k)Fluoranthene_ 420 : 50-32-8-----Benzo(a)Purene____ 420 IU 193-39-5-----Indeno(1,2,3-cd)Pyrene 420 IU 53-70-3------Dibenz(a, h)Anthracene 420 U : 191-24-2-----Benzo(g,h,i)Perylene<u>lika ik</u>

FORM 1 SV-2

1255

3/90

(1) - Cannot be separated from Diphenylamine

EFA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET SOIL &

CXM38

Lab Name: ENVIROSYSTEMS Contract: 68010084

Lab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CKW20

Matrix: (soil/water) SOIL Lab Sample ID: 93060861

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060861/2

Level: (low/med) LCW Date Received: 06/03/93

Moisture: <u>24</u> decanted: (Y/N) N Date Extracted: 06/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/kg) Ug/kg Q

	CA3 NO.		togyt or ogyngy	20/7/0	·	.	
;	108-95-2			430	! !U	; 1	
:	111-44-4		her	430	iŭ	i	
:	95-57-8	2-Chlorophenol		430	IU	` 1	
1	541-73-1	1,3-Dichlorobenzene_		430	IU	1	
ŧ	106-46-7	i.4-Dichlorobenzene_	<u> </u>	430	-:U	:	
:	95-50-1	1,2-Dichlorobenzene		430	IU	ŧ	
1	95-48-7	2-Methylphenol		430	IU	1 ,	
•	108-60-1	2, 2'-oxybis(1-Chlorop	ropane)_	430	. IU	1	/
1	106-44-5	4-Methylphenol		430	U	1	
i	621-64-7	4-Methylphenol N-Nitroso-Di-n-Propyl	amine	430	· IU	1	
ŧ	67-72-1	Hexachloroethane	free contracts	430	:U	ŧ	
į	98-95-3	Nitrobensene	service of the service of	430	IU	:	
1		Isophorone		430	10	1	
;	88-75-5	2-Nitrophenol	1	\ 43Q	I U	:	
•	105-67-9	2.4-Dimethylphenol	1.11	430	IU	1	
:	111-91-1	bis(2-Chloroethoxy)Me	thanet	430	IU	1.	
;	120-83-2	2.4-Dichlorophenol		430	IU	1	
ŧ	120-82-1	1, 2, 4-Trichlorobenzen	10 77 3 77 3 77	430	1U	\$	
;	91-20-3	Naphthalene 4-Chloroaniline		430	IU	1	
•	104-47-8	4-Chloroaniline	The second of the second	430	IU	1	
:	87-48-3	Hexachlorobutadiene_		430	IU	1	
ŀ	59-50-7	4-Chloro-3-Methylphen	01	430	IU	1	
•	91-57-6	2-Methylnaphthalene_		430	IU	. !	
	77-47-4	Hexachlorocyclopentad	iene	430	IU	1	
•	88-04-2	2,4,6-Trichloroohenol		430	10	1.	
•	93-95-4	2, 4, 5-Trichlorophenal		1100	IU -	1	
•	91-58-7	2-Chloronaphthalene_		430 "	10	1	
	88-74-4	2-Nitroaniline	* * * * *	1100	-IU	1	
2	131-11-3	Dimethulahthalate 🐃 🗀	and the second s	430	IU	1	
ł	208-94-8	Acenaphthylene	the state of the s	430	10 -	XL	
}	604-20-2	2. 6-Dinitrotoluene : .	A ST STEEL STATE	430	IU	RPKU	
l	99-09-2	3-Nitroaniline		1100	IŪ	1414	j
}	83-32-9	3-Nitroaniline	The Same of the sa	430		arte	_
					ــــا۔		

FORM I SV-1

全383/90

FORM I SV-2

1389

3/90

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

50169:

CXM39 1/ Lab Name: ENVIROSYSTEMS Contract: 68D10084 Case No. : 20101 SAS No. : _____ SDO No. : CKWZO Lab Code: ENVSYS Lab Sample ID: Matrix: (soil/water) SOIL 93060862 30.0 (g/mL) <u>G</u> Lab File ID: 5060862 Sample wt/vol: N 55 Level: (low/med) LOW Date Received: <u>06/93/93</u> decanted: (Y/N) N____ % Moisture: 16 Date Extracted: 06/11/93 06/30/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed:

Injection Valume: ____2.0(uL)

Dilution Factor: _____1.0

CONCENTRATION UNITS:

(Y/N) Y___ pH: 6.2 GPC Cleanup:

COMPOUND (ug/L or ug/Kg) UG/KG CAS NO. 108-95-2-----Phencl_ 390 10 111-44-4-----bis(2-Chloroethyl)Ether__ 390 10 95-57-8-----2-Chlorophenol 390 IU 541-73-1-----1, 3-Dichlorobensene_ 390 IU 390 IU 95-50-1-----1, 2-Dichlorobensene_ 390 IU 95-48-7-----2-Methylphenol_ 390 IU 390 108-60-1-----2, 2'-oxybis(1-Chloropropane)_ IU : 106-44-5-----4-Methylphenal <u>"</u> 370 IU 390 - IU : 621-64-7----N-Nitroso-Di-n-Propulamine_ 67-72-1-----Hexachloroethane_ 390 IU : 98-95-3-----Nitrobenzene_ 390 IU 390 10 , 390 IU 88-75-5----2-Nitrophenol__ . 390 IU 105-67-9-----2; 4-Dimethylphenol 390 IU 111-91-1-----bis(2-Chloroethoxy)Methane_ 390 IU 120-83-2----2, 4-Dichlorophenol 390 IU 120-82-1-----1, 2, 4-Trichlorobenzene_ 91-20-3----Naphthalene____ 390 10 390 IU 104-47-8-----4-Chloroaniline_ 390 10 -87-68-3----Hexachlorobutadiene IU 390 ----4-Chloro-3-Methylphenol<u>"</u> 59-50-7--390 IU 91-57-6----2-Methulnaphthalene 390 IU : 77-47-4----Hexachlorocyclopentadiene_ 10 390 1 88-06-2----2, 4, 6-Trichlorophenol_ 950 IU i 95-95-4-----2, 4, 5-Trichlorophenol____ 390 10 ; 91-58-7----2-Chloronaphthalene · 1U 950 : 88-74-4----2-Nitroaniline 390 . 10 : i31-11-3-----Dimethulphthalate IU 208-96-8-----Acenaphthylene__ 370 JU 390 -- : 606-20-2----2,6-Dinitrataluene_ # | 99-09-2-----3-Nitroaniline IU 750 ---Acenaphthene IU

FORM I SV-1

AR000320

CKW37.

93060862

Lab Sample ID:

Date Received:

a b	Name:	ENVIROSYSTEMS	Contract:	68D10084

ab Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CKWZO

Matrix: (soil/water) <u>SOIL</u>

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S060862 A

Level: (low/med) <u>LOW</u>

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/93

Injection Volume: 2.0(uL) Dilution Factor: _

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/kg) <u>Ug/kg</u> Q

: 51-28-5-----2, 4-Dinitrophenol_____ 950 IU : 100-02-7-----4-Nitrophènol____ 950 IU : 132-64-9-----Dibenzofuran_ 390 IU : 121-14-2-----2,4-Dinitrotoluene_ 390 IU : 84-66-2------Diethylphthalate ______ 390 - IU : 7005-72-3----4-Chlorophenyl-phenylether___ 390 IU : 86-73-7-----Fluorene____ 390 ·IU | 100-01-6-----4-Nitroaniline_______ 750 IU 1 534-52-1-----4, 6-Dinitro-2-methylphenol_ 750 -10 : 86-30-6-----N-Nitrosodiphenylamine (1)_ 390 - 1U : 101-55-3-----4-Bromophenyl-phenylether___ 390 -10 1 118-74-1------Hexachlorobenzene 390 " IU : 87-86-5----Pentachlorophenol__ 950 IU : 85-01-8-----Phenanthrene_ . 370 IU 390 IU | 120-12-7----Anthracene__ : 86-74-8-----Carbazole__ 390 IÙ : 84-74-2-----Di-n-Butylphthelate_-280 18 120 : 206-44-0-----Fluorenthene IJ 390 10 : | 85-68-7-----Butylbenzylphthalate 390 390 IU 390 IÜ : 56-55-3-----Benzo(a)Anthracene<u>-</u> 390 1900 : | 117-81-7-----bis(2-Ethylhexyl)Phthalate___ 390 290 : 207-08-9----Benzo(k)Fluoranthene_ 390 IU 1.50-32-8-----Benzo(a)Pyrene______ 390° -390 - 1U i 193-39-5----Indeno(1, 2, 3-cd)Purene : ____ | 1 | 53-70-3-----Dibenz(a, h) Anthracene__ -390 " IU

(1) - Cannot be separated from Diphenylamine

Cerry Seemann

1346 3/90

#F/ SAMPLE NO SEMIUCLATILE CREANICS ANALYSIS DATA SHEET 5014101 CXW40 Lab Name: ENVIROSYSTEMS ____ Contract: <u>68010084</u> Case No.: 20101 SAS No.: _____ SDG No.: CXW20 Lab Code: ENVSYS Matrix: (soil/water) SOIL Lab Sample ID: <u>93060863</u> Sample wt/vol: 30.0 (g/mL) G 506086<u>3</u> A Lab File ID: Level: (low/med) LOW Date Received: 04/03/93 Date Extracted: 06/11/93 15. decanted: (Y/N) N____ Concentrated Extract Volume: 500.0 (uL) Date Analuzed: **E6/00/93** Injection Volume: _____2.0(uL) Dilution Factor: _____1.0 pH: <u>4.0</u> GPC Cleanus: (Y/N) Y___ CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/KG : 108-95-2----Phenol_ 390 10 111-44-4----bis(2-Chloroethyl)Ether_ 390 IU : 95-57-8----2-Chlorophenol_ 390 -10 | 541-73-1----1,3-Dichlorobenzene_ 390 IU 106-46-7-----1,4-Dichlorobenzene 390 IU 95-50-1----1, 2-Dichlorobenzene_ 390 10 95-48-7----2-Methylphenol___ 390 IU : 108-60-1----2, 2'-oxybis(1-Chloropropane)_! 390 IU 1 106-44-5-----4-Methylphenol_ 390 1U 390 IU

: 621-64-7----N-Nitroso-Di-n-Propylamine_ : 67-72-1----Hexachloroethane 390 10 | 98-95-3-----Nitrobenzene__ 390 ľÜ ! 78-59-1-----Isophorone___ 390 - IU : 88-75-5----2-Nitrophenol_ , 390 IU. IU i 105-67-9----2, 4-Dimethylphenol_ 390 111-91-1----bis(2-Chloroethoxy)Methane_ 390 IU : 120-83-2----2, 4-Dichlorophenol____ 390 IU 1 120-82-1-----1, 2, 4-Trichlorobenzene__ 390 IU 71-20-3----Naphthalene____ 390 IU : 104-47-8-----4-Chlorcaniline_ 390 IU 390 10 : 87-68-3-----Hexachlorobutadiene_ : 59-50-7-----4-Chloro-3-Methylphenol_ 390 IU | 91-57-6----2-Methylnaphthalene____ 390 · IU : 77-47-4-----Hexachlorocyclopentadiene_ 390 IU : 88-06-2----2, 4, 6-Trichlorophenol___ 390 1 IU 1 95-95-4-----2.4.5-Trichlarophenol__ 940 IU | 91-58-7----2-Chloronaphthalene____ 390 : IU : 88-74-4----2-Nitreaniline____ 940 IU - 390 - IU 1 208-96-B----Acenaphthylene 390 : 1U 390 IU 1 606-20-2-----2, 6-Dinitrotoluene ! 99-09-2-----3-Nitroamiline__ IU 940 1 83-32-9----Acenaphthene 390 ... IU

FORM I SV-1

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3/90

EFA SAMPLE NO

Lab Na	me: <u>Envirosys</u> t		Contract:	68D10084			<u>10</u>
) Co	de: ENVSYS	Case No.: 20101	SAS No. :	: · S	DG No.:	CKMSO	→ ·'
) Matrix	: (soil/water)	SOIL		Lab Sample I	D: <u>930</u>	E6806	····
Sample	wt/val:	30.0 (g/mL) G	e de la companya de l	Lab File ID:			
Level:	(law/med)	LOM		Date Receive			
% Mois	ture: <u>15</u>	decanted: (Y/N)	<u>N</u>	Date Extract	ed: <u>06/</u>	11/93	
Concen	trated Extract	Valume; 500.0	(UL)	Date Received: 06/83/93 Date Extracted: 06/11/93 Date Analyzed: 06/30/93 Dilution Factor: 1.0 CONCENTRATION UNITS: (ug/L gr ug/Kg) UG/KG Q			
Inject	ion Volume:	2,0(uL)		Dilution Fac	tor:	1.0	43 43 93 93 93
GPC C1	eanup: (Y/N)	<u>ү</u> . рН: <u>4</u>			93040843 \$040843 \$040843 \$040843 \$040843 \$1: 04/30/93		
	CAS NO.	COMPOUND				, 	
;	\$1-20-5	2,4-Dinitrophe					} •
		4-Nitrophenol_			–		i B
;	137-64-8	Dibenzofuren	·		· · · · ·	- •	i 1
	136-64-7	Disentatoren				- 1	j h
	121-14-5	2, 4-DIUIELGEGI	neue	<u>'</u>		_	j h
•	84-60-5	Diethylphthala		 !			j
	\002-\5-3	4-Culoropnenyi	brend re eu	187!			i
, 1	86-73-7	Fluorene					i I
	100-01-6	4-Nitroaniline.		 [·			j •
1	534-52-1	4, 6-Dinitro-2-6	nethylphen	101)
3	86-30-6	N-Nitrosodipher	nylamine (1)			• • •
	101-55-3	4-Bromaphenyl-,	phenylethe	r!			j
	118-74-1	Hexachlorobens	ene				j
1	87-86-5	Pentachloropher	701		- •		1
1	85-01-8	Phenanthrene	·				}
1	120-12-7		- -		390 🗈	1U . 1	i
. 1	86-74-8			11		,	1.
	84-74-2	Di-n-Butylphtha	elate	}	460	18 I	ŀ
t	206-44-0	Fluoranthene		<u> </u>	3 90	(U_+ I	<u> </u>
1	129-00-0	Pyrene		I	390	1Ų · 1	ļ
:	:: ::-7	-Butylbenzylphti	alate	<u> </u>	390	1U : 1	ļ
1	71-94-1	3.3'-Dichlerebe	enzidine		390	1U 1	}
\$	54-55-3	Benzo(a)Anthrac	ene		390	10 mg - 1	j
3	218-01-9	Chrysene			. 390 .	IU I	}
		bis(2-Ethylhery					}
1	117-84-0	Di-n-Octyl Phth	alate				ľ
ì	205-99-2	Benzo(b)Fluorar	thene				ì
		Benzo(k)Fluorar		i			
Ţ.	50-32-R	Benzo(a)Pyrene	·	 i			20
Ī	107-70-5	Indena (1, 2, 3-cd	1100000	 ;	and the second s		M
	57-70-7	Dibenz(a,h)Anth	······································				Ĺ
in de de la companya	181-74-7	Benző(g.h.:1)Per	iractne		200	. u	11.
	171-64-6		A'reus		⇔7∀ µ%:	1 3 to 1 2	
\bigcirc , \dagger) - Canact he	sacarated from Di	ahanulani			•	•

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5016 11:

CONCENTRATION UNITS:

		•				CXW41
_46	Name:	ENVIROSYSTEMS	Contract:	68D10084	!	

Lab Code: ENVSYS Case No. : 20101 SDG No. : CXWZO SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: 93060864

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060864

Date Received: (low/med) LOW

19 decanted: (Y/N) N Date Extracted: 06/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/93

Injection Volume: 2.0(uL) Dilution Factor: 5. Q

GPC Cleanup: (Y/N) Y pH: <u>-6.9</u>

	CAS NO.	COMPOUND	(ug/L or	ug/Kg) <u>UG/KG</u>	<u>.</u>	
;		Phenol		1 2000	10	1
:	111-44-4	bis(2-Chloroethyl)Et	her	2000	.IU .	1
•	95-57-8	2-Chlorophenol	<u> </u>	2000	10	1
ŧ	541-73-1	1, 3-Dichlorobenzene_		_1 2000 °	10	1
;	104-44-7	1, 4-Dichlorobenzene		1 2000	IU	1
ı	95-50-1	1, 2-Dichlorobenzene_		2000	IU	1
:	95-48-7	2-Methylphenol		1 2000	10	1 . ,
1	108-40-1	2,2'-exubis(1-Chlore	erepane)	1 2000	IU	
ł	106-44-5	4-Methylphenol		2000	IU	1
ı	621-64-7	N-Nitroso-Di-n-Propy	lagine	2000	IU	1
•	67-72-1	Hexachloroethane		2000	10	1
1	78-75-3	Nitrobenzene		2000	IU	İ
1	78-59-1	Isophorone		, 5000	IU	1
1	88-75-5	2-Nitrophenol		2000	IU	1
•	105-67-9	2, 4-Dimethylphenol_		2000	10	i
1	111-91-1	bis(2-Chloroethoxy)M	ethane	2000	IU	İ
•	120-83-2	2.4-Dichlorophenol			- -	i
	120-82-1	1, 2, 4-Trichlorobenze	70	2000	้าบ	1
	91-20-3	Naphthalene	····	1200	ij	1.
	104-47-8-	4-Chloroaniline		2000	, : .	ì
i		Hexachlorobutadiene		2000	iŭ	ì
	59-50-7	4-Chloro-3-Methylphe	201	2000	้าบ	i
	91-57-4	2-Methylnaphthalene_		710	ÍĴ	i
' !	77-47-4	Hexachlorocyclopenta	41000		ÌŪ	1
!	88-04-2	2,4,6-Trichloropheno	1	2000	iŬ	i
	05-05-4	2,4,5-Trichloropheno	-	4900	iŭ	i
!	91-59-7	2-Chloronaphthalene_	•	2000	iŭ	i
	20-74-4	2-Nitroaniline		4900	ำเบ้	that
;		Dimethylphthalate		2000		/W
	131-11-3	Acenaphthylene				7
	101-70-0			2000	- 2 .	
	99-08-3	2, &-Dinitrotolvene	* * * * * * * * * * * * * * * * * * *	4900	10	4\
		3-Nitroaniline				<i>ب</i> بر
	93-34-7	Acenaph thene				i

CKU41 Lab Name: ENVIROSYSTEMS Contract: 855010084 1-501--11 16 Code: ENVSYS Case No.: 20101 SAS No.: ____ SDG No.: CKW20_ Matrix: (soil/water) SOIL Lab Sample ID: 93060864

30.0 (g/mL) G Lab File ID: 506086#T ريخ) بين Level: Date Received: (low/med) <u>LDW</u> 06/03/93

% Moisture: ___19 decanted: (Y/N) N____ Date Extracted: 06/11/93

Concentrated Extract Volume: 500.0 ___(uL) - Date Analyzed: 06/30/93

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y__ pH: 6.9

Sample wt/vol:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q

CONCENTRATION UNITS:

; 51-28-5----2, 4-Dinitrophenol____ 4900 10 | 100-02-7----4-Nitrophenol____ 4900 IU : 132-64-9-----Dibenzofuran___ -1200 IJ | 121-14-2----2,4-Dinitrotoluene_ 2000 IU : 84-66-2-----Diethulphthalate____ 2000 1 7005-72-3----4-Chlorophenul-phenulether___! 2000 : lu | 86-73-7-----Fluorene_ 1 100-01-6----4-Nitroaniline 1900 IJ 4900 1 534-52-1----4, &-Dinitro-2-methylphenol___ 4900 - IU : 86-30-6-----N-Nitrosodiphenylamine (1)____! 2000 1U 2000 1U : 101-55-3----4-Bromophenyl-phenylether____ : 118-74-1-----Hexachlorobenzene 2000 1U | 87-86-5-----Pentachlorophenol___ . 4900 " IU | 85-01-8-----Phenanthrene____ 17000 IE : 120-12-7-----Anthracene____ 4000 2600 : 84-74-2-----Di-n-Butylphthalate 700 IBJ 1 206-44-0-----Fluorenthene____ 24000 IE ___Purene_ 1 129-00-0---13000 85-68-7-----Butulbenzylohthalate_ 2000 2000 ----Benzo(a)Anthracene_____ 11000 | 218-01-9-----Chrysene____ **8500** | 117-61-7-----bis(2-Ethylhexyl)Phthalate___| 66000 1 117-84-0-----Di-n-Octyl Phthalate 2000 1 205-99-2----Benzo(b)Fluoranthene 24000 IE 1 207-08-9----Benzo(k)Fluoranthene____ 2000 1 50-32-8-----Benzo(a)Pyrene______1 8800-1 8800 193-39-5----Indeno(1, 2, 3-cd)Pyrene____t**********4200 **1 .) 1 53-70-3-----Dibenz(a,h)Anthracenez 191-24-2----Benzo(g, h, 1)Perylene_____

(1) - Cannot be separated from Diphenylamine FORM 1 SV-2

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXW41DL Contract: 68010084 Lab Name: ENVIROSYSTEMS Lab Code: ENVSYS Case No. : 20101 SAS No.: _____ SDG No. : CKW20 Matrix: (soil/water) SQIL Lab Sample ID: 93060864 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3060864D Level: (low/med) <u>LOW</u> Date Received: 19 decanted: (Y/N) N___ % Moisture: Date Extracted: 04/11/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: **E6/05/90** Dilution Factor: Injection Volume: _____2.0(uL) 23. Q GPC Cleanup: (Y/N) Y___ pH: <u>6.9</u> CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) <u>UG/KG</u> 1 108-95-2----Phenol 10000 İU : 111-44-4-----bis(2-Chloroethyl)Ether_ 10000 !U : 95-57-8----2-Chlorophenol____ 10000 ľU : 541-73-1-----1, 3-Dichlorobenzene_ 10000 IU 10000 IU 10000 ıu : 95-48-7------2-Methylphenol_ 10000 IU : 108-60-1----2, 2'-oxybis(1-Chloropropane)_! 10000 IU 1 106-44-5----4-Methylphenol_ 10000 IU 621-64-7----N-Nitroso-Di-n-Propylamine 10000 10 : 47-72-1-----Hexachloroethane_ 10000 10 : 98-95-3-----Nitrobenzene 10000 IU 10000 78-39-1------Isophorone_ U ----2-Nitrophenol_____ 10000 ľU : 105-57-9-----2, 4-Dimethylphenol_ 10000 IU 111-91-1----bis(2-Chloroethoxy)Methane_ 10000 !U : 120-83-2----2,4-Dichlorophenol_ 10000 IU : 120-82-1-----1, 2, 4-Trichlorobenzene 10000 10 : 91-20-3-----Naphthalene_ 10000 !U 10000 104-47-8------4-Chloroaniline :U ----Hexachlorobutadiene__ 10000 IU 87-68-3-------4-Chloro-3-Methylphenol__ I U : 59-50-7--10000 · 1U -2-Methylnaphthalene_ 10000 IU -Hexachlorocyclopentadiene_ 10000 IU 10000 | 88-04-2----2, 4, 4-Trichlorophenol___ IU 25000 | 95-95-4----2,4,5-Trichlorophenol____ 91-58-7----2-Chloronaphthalene___ 10000 IU | 88-74-4----2-Nitroaniline____ 25000 IU IU | 131-11-3-----Dimethylphthalate 10000 1 208-96-8-----Acenaphthylene 10000 I U // 606-20-2-----2,6-Dinitrotoluenë<u>, from prot</u> 10000 · IU aj U 25000 IU 10000 -Acenaphthene<u>kamer</u> 3/90 FORM I SV-1

Lab Name: ENVIROSYSTEMS _____ Contract: 68010084 th Code: Envsys Case No.: 20101 SAS No.: _ SDG No.: CKW20 Lab Sample ID: 93060864 Matrix: (soil/water) <u>SOIL</u> Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060864D Level: a par (low/med) LOW ___ Date Received: <u>06/83/93</u> % Moisture: <u>19</u> decanted: (Y/N) <u>N</u> Date Extracted: <u>06/11/93</u> Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/93 Injection Volume: 2.0(uL) Dilution Factor: ____25.0 (Y/N) <u>Y</u> GPC Cleanup: pH: <u>6.9</u> CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) <u>UG/KG</u> ٠: 25000 IU : 51-29-5-----2,4-Dinitrophenol_ | 100-02-7----4-Nitrophenol____ 25000 IU 1 10000 IU | 132-64-9-----Dibensofuran____ 1 121-14-2----2,4-Dinitrotoluene____ 10000 IU : 84-66-2----Diethylphthalate____ 10000 10000 1 7005-72-3----4-Chlorophenyl-phenylether__ : | 86-73-7------Fluorene_ 10000 100-01-6-----4-Nitroeniline____ 25000 IU : 534-52-1----4,6-Dinitro-2-methylphenol___ 25000 " "IU | E4-30-6-----N-Nitrosodiphenylamine (1) | 10000 | 10 : 101-55-3------4-Bromophenyl-phenylether____! 10000 IU 1 10000 i 118-74-1-----Hexachlorobenzene : 87-86-5----Pentachlorophenol____ - v25000 * 1U : 85-01-8------Phenanthrene____ ______1 4000 % I D | 120-12-7-----Anthracene 3400 I DJ 10000 1 84-74-2----Di-n-Butylphthalate____ 10000 20000 1 206-44-0-----Fluorenthene : 85-68-7-----Butylbenzylphthalate____ 1 10000 IU 10000 1 56-55-3----Benzo(a)Anthracene_ 7600 IDJ 6000 IDJ 117-81-7-----bis(2-Ethylhexyl)Phthelate__ 72000 ID 1 117-84-0-----Di-n-Octyl Phthalate 10000 1 205-79-2----Benzo(b)Fluorenthene____1 20000 14 · · · · · 10000 /* 1U \ | 207-08-9-----Benzo(k)Fluorenthene____ | 50-32-8----Benzo(a)Pyrene____ ----6700 X IDJ 3900 100 ': 193-39-5----Indeno(1, 2, 3-cd)Pyrene_ : 53-70-3-----Dibenz(a,h)Anthracene___ 4100791DJ 1 191-24-2-----Benzo(g,h,i)Perylana (1) - Cannot be separated from Diphenylamine

FORM I SV-2

1.1502

3/90

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAS No. :

EPA SAMPLE NO

Soil 13

CKW43

Lab Name: ENVIROSYSTEMS Contract: 68010084

Case No. : 20101

SDO No. : CKW20

Matrix: (soil/water) SOIL

Lab Sample ID:

9060849

<u>30.0</u> (g/mL) G

Lab File ID:

3060849RE

LOW (low/med)

Date Received:

06/03/93

% Moisture:

Sample wt/vol:

decanted: (Y/N) N_ Date Extracted: 06/29/93

Concentrated Extract Volume: 500.0 (uL)

14

Date Analyzed: 07/02/93

Injection Volume: 2.0(uL)

Lab Code: ENVSYS

Dilution Factor:

GPC Cleanup: (Y/N) Y___

pH: <u>7.6</u>

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

,				113
17-07-2	3-Nitroaniline	950 390		
	2. 4-Dinitrotaluene			ン
208-96-8	Acenaphthylene	390		マル
131-11-3	Dimethylphthalate	390		. i
38-74-4	2-Nitroaniline	95(جرح ا
71-58-7	2-Chloronaphthalana	390		×///
73-93-4	2, 4, 5-Trichlorophenol			į
	2.4.4-Trichlorophenol	390		į
77-47-4	Hexachlorocyclopentadiene	370		į.
71-57-6	2-Methylnaphthalene	390		
59-50-7 -	4-Chloro-3-Methylphenol	390	-	
37-68-3	Hexachlorobutadienei	371		1
106-47-8 	4-Chloroaniline <u></u> :	390		1
71-20-3 -	Naphthalene ,	390	טו כ	
120-82-1	1, 2, 4-Trichlorobenzene	390		
120-83-2 	2,4-Dichlorophenol	39(UI	:
111-91-1	bis(2-Chloroethoxy)Methane	390	UI C	ŀ
105-67-9 -	2, 4-Dimethylphenol	379	D - IU	- I
38-75-5	Isophorone 2-Nitrophenol) · · · · · · 39(UI	1
78-59-1	Isophorone	· 39	UI	ŧ
	Nitrobenzene	390	UI C	ı
67+72-1- 	Hexachloroethane	}≥	טו כ	ı
621-64-7	N-Nitroso-Di-n-Propylamine	390	טו כ	:
106-44-5	4-Methylphenol	39		
108-40-1	2,2'-oxybis(1-Chloropropane)_		UI 🦠 C	1
95-48-7	2-Methylphenol	37	טו כ	1
95-50-1	1. 2-Dichlorobenzene	39	3 IU	1
104-46-7	1, 4-Dichlorobenzene	39	0 10	1
541-73-1	1, 3-Dichlorobenzene	39	0 1U	1
95-57-8	2-Chlorophenol	39	O IU	1
111-44-4	bis(2-Chloroethul)Ether	39	O IU	1
.00-73-6	Phenol	39	O IU	

·= ; e :		ILE ORGANICS ANALYSIS	DATA SHEET	EFA SAUFEE N
Lab	C: Name: <u>ENVIROSYS</u>	rems co	Intract: <u>68010084</u>	CXW43
*6	Code: <u>ENVSYS</u>	Case No. : 20101 S	IAS No.:	SDG No. : CKW20
Matr	ix: (soil/water)	SOIL	Lab Sample	ID: 5060849
Samp	le wt/vol:	30.0 (g/mL) G	Lab File I	D: <u>\$060849RE</u>
Leve	l: (low/med)	LOW	Date Recei	ved: 06/03/93
% Mo:	isture:16	decanted: (Y/N) N	Date Extra	cted: <u>06/29/93</u>
Conc	entrated Extract	: Volume: <u>500.0</u> (uL	.) Date Analy	zed: <u>07/02/93</u>
Inje	tion Volume:	2. 0 (uL)	Dilution F	actor:1.0
GPC (:leanup: (Y/N)	Y pH: 7.6		*
	CAS NO.	COMPOUND	CONCENTRATION ((ug/L or ug/Kg	
	1	2,4-Dinitrophenol		950 10 1
	! 100-02-7	4-Nitrophenol		950 IU
	1 132-44-9	Dibenzofuran		390 IU I
	1 121-14-2	2,4-Dinitrataluen		390 10 1
	1 84-66-2	Diethylphthalate_		390 IU I
	1 7005-72-3	4-Chlorophenyl-ph	enulether	370 IU I
	1 84-73-7	Fluorene		390 IU I
ز	1 100-01-6	4-Nitroaniline		950 IU I
	: 534-52-1	4.6-Dinitro-2-met	hulahengi	950 IU I
	1 86-30-6	N-Nitrosodiphenyl	amine (1)	370 10 1
	: 101-55-3	4-Bromophenyl-phe	nulether	390 IU I
	1 118-74-1	Hexachlorobenzene		390 10 1
	1 87-84-5	Pentachlorophenol		950 IU I
	: 85-01-8	Phenanthrene	and the second second	`390 IU I
	1 120-12-7	Anthrecene	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	390 IU J
•	: 86-74-8	Carbaicle		390. IU I
	1 84-74-2	Di-n-Butylphthela	te <u>rmentalis</u> t pares	- 710 HB - I

(1) - Cannot be separated from Diphenylamine...

193-39-5-----Indeno(1, 2, 3-cd)Pyrene____ 53-70-3-----Dibenz(a, h)Anthracene<u>xaller</u>

-Butylbenzylphthalate -3,3'-Dichlorobenzidine

Di-n-Octyl Phthalate

Benzo(b)Fluoranthene_

-bis(2-Ethylhexyl)Phthalate

· 1550

390

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SEMIUCLATILE CRGANICS ANALYSIS DATA SHEET SEDI CKW18 Lab Name: ENVIROSYSTEMS _____ Contract: <u>68D10084</u> Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No. : CXW36 Matrix: (soil/water) SOIL Lab Sample IJ: 93060874 Lab File ID: Sample wt/vol: 30.0 (g/mL) GS060874R Level: (low/med) LOW_ Date Received: 06/04/93 40 decanted: (Y/N) N_ Date Extracted: 06/11/93 Concentrated Extract Volume: 500.0 (uL) 07/06/93 Date Analyzed: Dilution Factor: 1.0 Injection Volume: _____2.0(uL) GPC Cleanup: (Y/N) Y pH: 7.4 CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) <u>Ug/Kg</u> CAS NO. : 108-95-2----- Phenol 550 10 : 111-44-4-----bis(2-Chloroethyl)Ether____ 550 IU : 95-57-8-----2-Chlorophenol____ 550 IU 1 541-73-1-----1, 3-Dichlorobenzene_ 550 IU : 104-44-7-----1, 4-Dichlorobenzena_ 550 IU : 95-50-1----1, 2-Dichlorobenzene____ 350 IU : 95-48-7----2-Methylphenol____ 550 -10 : 108-60-1----2, 2'-oxybis(1-Chloropropane)_! IU 350 550 · : 106-44-5----4-Methylphenol____ IU : 621-64-7-----N-Nitroso-Di-n-Propylamine__ 550 IU 67-72-1----Hexachloroethane____ 550 10 : 78-75-3----Nitrobensene____ 550 IU 550 10 - 550 10 IU 550 : 111-91-1-----bis(2-Chloroethoxy)Methane___ 550 TU : 120-83-2----2, 4-Dichlorophenol____ 550 IU | 120-82-1----1, 2, 4-Trichlorobenzene_____ | 91-20±3-----Naphthalene_____ 550 IU 550 10 : 106-47-8-----4-Chlorcaniline___ IU 550 550 .10 . | 87-68-3-----Hexachlorobutadiene___ : 59-50-7----4-Chloro-3-Methylphenol____ 10. 550 ! 91-57-6----2-Methylnaphthalene____ 550 IU : 77-47-4-----Hexachlorocyclopentadiene 550 IU : 88-06-2-----2, 4, 6-Trichlorophenol_____ 550 IU ! 95-95-4----2, 4, 5-Trichlorophenol_____ IU 1300 | 91-58-7----2-Chloroπaphthalene_____ 550 10 1 88-74-4----2-Nitroaniline____1 1300 IU. 'IU : 131-11-3----Dimethylphthalate____ 550 1 208-96-8----Acenaphthylene____ . 550 JU .. | 604-20-2-----2, 6-Dinitrotaluene____ 550 - IU | 99-09-2----3-Nitroaniline | 83-32-9----Acenaphthene1300 -1U 550 FORM I SV-1 De 12 1 19 1 19 1

AR000330

485

SEMIUCLATILE ORGANICS ANALYSIS DATA SHEET CKW18 Lab Name: ENVIROSYSTEMS Contract: 68D10084 Case No. : 20101 SAS No. : SDG No. : CXW36 Lab Code: ENVSYS_ Latrix: (soil/water) SOIL Lab Samole ID: 93060874 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060874R LOW (low/med) Date Received: 06/04/93 . Date Extracted: 06/11/93 decanted: (Y/N) N Concentrated Extract Volume: 500.0 Date Analyzed: 07/06/93 Injection Volume: _____2.0(uL) Dilution Factor: GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7.4</u> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> 1300 ! U : 100-02-7----4-Nitrophenol___ 1300 IU 350 : 132-64-9-----Dibenzofuran__ IU : 121-14-2----2, 4-Dinitrotoluene__ 550 1 U : 64-66-2------Diethylphthalate___ 550 IU : 7005-72-3----4-Chlorophenyl-phenylether_ 550 IU 550 1300 10 1300 : 534-52-1-----4,6-Dinitro-2-methylphenol___; : | 86-30-6----N-Nitrosodiphenylamine (1)_ 550 : 101-55-3----4-Bromophenyl-phenylether 550 : 118-74-1----Hexachlorobenzene 550 ľU 1300 'IU **.** "650 1550 : 120-12-7----IU 550 : 84-74-2----Di-n-Butylphthalate_ 2000 1 206-44-0----Fluoranthene 1400 1000 ---Butulbenzylphthalate 550 IU -550 ----3,3'-Dichlorobenzidine 590 : 56-55-3---Benzo(&)Anthracene____ 670 -Chrusene___ ! 117-81-7-----bis(2-Ethylhexyl)Phthalate___! 880 550 IU i 117-84-0-----Di-n-Octul Phthalate_ 1400 1 :| 205-99-2----Benzo(b)Fluoranthenè: -Benzo(k)Fluoranthene 550 610 | 50-32-8-----Benzo(a)Pyrene_____ 1 193-39-5----Indeno(1, 2, 3-cd)Pyrene____ | 53-70-3-----Dibenz(a,h)Anthracene_ 1 191-24-2-----Benzo(g.h.i)Perylene 医对抗凝集物制物 人名约克特尔 (1) -- Cannot be separated_from_Diphenylamine 🔗 Sept. 3/90 FORM I SV-2

486

Lab Name: ENVIROSYSTEMS Contract: 68010084

Lab Code: ENVSYS SDG No. : Case No.: 20101 SAS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 93060875

Sample wt/vol: _30.0 (g/mL) G Lab File ID: S060875R

LCW. (low/med)

Date Received: 06/04/93

44 decanted: (Y/N) N Date Extracted: 06/11/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 07/06/93

Injection Volume: _____2.0(uL)

Dilution Factor:

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:

CAS NO. COMPOUND

		•
108-95-2	1 610	10
111-44-4	610	U
95-57-82-Chlorophenol	1 610	Ü
541-73-11, 3-Dichlorobenzene		
106-46-71, 4-Dichlorobenzene	1 610	Ü
95-50-1	610	ΙŬ
95-48-72-Methylpheng1		iŭ
108-60-12, 2'-oxybis(1-Chloropropane)_		Ü
106-44-54-Methylphenol		ij'
621-64-7N-Nitroso-Di-n-Propylamine	410	iŭ
47-72-1Hexachloroethane	610	Ü
98-95-3Nitrobenzene	410	Ü
78-39-1		
29a75a5aaaaaaaa 2.Wi taashaaa1	610	
88-75-52-Nitrophenol 105-67-92,4-Dimethylphenol	610	Ü
111-91-1bis(2-Chloroethoxy)Methane	610	Ü
120-83-22, 4-D1chlorophenol		Ü
120-03-1	610	Ü
120-82-11, 2, 4-Trichlorobenzene	410	Ü
91-20-3Naphthalene, 104-47-84-Chlorbaniline		יט
	610	Ü
87-68-3Hexachlorobutadiene	610	iŭ
59-50-74-Chloro-3-Methylphenol	410	וֹט
91-37-62-Methylnaphthalene		Ü
77-47-4Hexachlorocyclopentadiene	610	iu
88-04-22, 4, 4-Trichlorophenol		IÙ .
95-95-42, 4, 5-Trichlorophenol	410	10
91-58-72-Chloronaphthalene	1500	10
38-74-42-Nitroaniline	1300	10
131-11-3Dimethylphthalate	610	
208-94-8Acenaphthylene	410	10 25
604-20-2	610	של טו
79-09-23-Nitroaniline	1500	いいつ
33-32-9Acenaphthene	610	

AR000332

3/90

EPA SAMPLE NO.

CKM14 Lab Name: ENVIROSYSTEMS Decl. Acres Contract: @ 68010084 'ab Code: ENVSYS Case No.: 2010! SAS No.: SDG No.: CKW36 Matrix: (scil/water) <u>SCIL</u> Lab Sample ID: 93060875 Sample wt/vol: <u>30.0</u> (g/mL) <u>G</u> Lab File ID: S060875R Level: (low/med) LCW -- * Date Received: 06/04/93 % Moisture: ___46 decanted: (Y/N) N ___ Date Extracted: 06/11/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/06/93 Dilution Factor: 1.0 Injection Volume: _____2.0(uL) GPC Cleanup: (Y/N) Y pH: 7.2 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG : 51-28-5-----2, 4-Dinitrophenol____ 1500 10 1 100-02-7----4-Nitrophenol____ 1500 IU | 132-64-9-----Dibenzofuran____ 610 610 | 121-14-2----2,4-Dinitrotoluene__ IU : 64-66-2----Diethylphthelate - 610 " !U | 7005-72-3----4-Chlorophenyl-phenylether____ 610 IU 1 84-73-7-----Fluorene___ 610 10 100-01-6----4-Nitroaniline____ 1500 ~ **1U** ; 534-52-1----4, 6-Dinitro-2-methylphenol___; 1500 :10 : E6-30-6----N-Nitrosodiphenylamine (1) 610 ·IU 610 TU : 1 101-55-3----4-Bromophenyl-phenylether 1 118-74-1----Hexachlorobenzene 610 HU 1500 TU # 87-86-5----Pentachlorophenol | 85-01-8------Phenanthrene___ \ 670 T 1 120-12-7-----Anthracene___ 610 IU - 610 IU : 86-74-8-----Carbazole_ 1000 1B ----Di-n-Butylphthalate 1 206-44-0-----Fluorenthene 1500 1 1 129-00-0-----Pyrene____ 1100 390 85-68-7----Butylbenzylphthalate 610 1 - 580 760 1117-81-7-----bis(2-Ethylhexyl)Phthalate___ 2300 610 IU 1 117-84-0-----Di-n-Octul Phthalate | 205-79-2----Benzo(b)Fluorenthene 1700 ° 610 IU 1 207-08-9----Benzo(k)Fluoranthene 700 510 1 193-39-5-----Indena(1, 2, 3-cd)Pyrene___ 1 53-70-3-----Dibenz(4. h)Anthracene____1 610 191-24-2----Benzo(g.h.i)Perylene 1 191-24-2 1 191-24-2 1 600-1 (1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

	370 370 370	ָ 	
bis(2-Chloroethul)Ether	- · -	IU	
2-Chlorophenol	370		•
1,3-Dichlorobenzene		10	
	370	10	
1,4-Dichlorobenzene	370	IU	1
1, 2-Dichlorobenzene	370	IU	
2-Methulphenol	370	IU	Į.
2, 2'-oxubis(1-Chloropropane)	370	IU -	
4-Methulphenol	370	10	1
N-Nitroso-Di-n-Propulacine	370	IŪ	1
Hexachloroethane	370	IÜ	1
		10	
	370	IU	1
2-Nitrophenol	- ,	IU	1
2.4-Dimethulphenol			1
	370	IU	
			, i
			1
Nanhthalana	370		, i
4-Chlorospiline			
		·	1
	370		
7-Mathulpanhthalana	370		
Wayachlaracuclasantadiana			1
			1
-2. A. S-Trichionenhanel			. 1
		-	i
			i
		·	. 1
			PI
	900		ابت
			- 'A'
		370	

FORM I SV-1

622

46010333

ETA SAMPLE NO.

CKW25". ______ Contract: 68D10084 Lab Name: ENVIROSYSTEMS 1 -b Code: ENVSYS_ Casa No.: 20101 SAS No.: SDG No. : CKW36 Matrix: (soil/water).<u>SCIL (</u>) Lab Sample ID: 93040876 Sample wt/vol: ::: <u>30.0</u> (g/mL) <u>G</u> Lab File ID: S060876 Date Received: 06/04/93 Level: (low/med) LOW decanted: (Y/N) N Date Extracted: 06/11/93 % Moisture: Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/02/93 Injection Volume: 2.0(uL) Dilution Factor: _____1.0 GPC Cleanup: (Y/N) <u>Y___</u> pH: <u>7.4</u> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> : 51-28-5----2, 4-Dinitrophenol_____ 900 10 | 100-02-7----4-Nitrophenol_____ 900 IU | 132-64-9-----Dibenzofuran__ 370 IU ! 121-14-2----2, 4-Dinitrotoluene____ 370 10 : 84-66-2----Diethylphthalate____ 370 IU 370 IU 1 84-73-7-----Fluorene_ 370 IU 1 100-01-6-----4-Nitroaniline____ 900 . 10 1 534-52-1-----4, 6-Dinitro-2-methylphenol_ 900 TU 370 : 86-30-6----N-Nitrosodiphenylamine (1)____ IU 370 IU 1 101-55-3-----4-Bromophenyl-phenylether____ | 118-74-1-----Hexachlorobenzene_______ 370 10 ~~ ~ 900 ° 1U : 87-86-5-----Pentachlorophenol____ 85-01-8----Phenanthrene 130 1 120-12-7-----Anthracene____ 370 10 370 1 86-74-8---1U : ----Carbazole<u>.</u> 180 1 84-74-2----Di-n-Butylphthalate IBJ 1 206-44-0----Fluoranthene 200 IJ --Pyrene_ 170 IJ 1 129-00-0--: 65-68-7-----Butylbenzylphthalate 370 - IU ~3**7**0 IU. 370 IU 370 IU IE 4500 117-81-7-----bis(2-Ethulherul)Phthalate 370 1 117-64-0-----Di-n-Octyl Phthalate 10 230 IJ 205-99-2----Benzo(b)Fluoranthene 370 1 207-08-9----Benzo(k)Flucranthene____ VI U : 50-32-8-----Benzo(a)Purene_ **370** . . **(**:0::/::/ 学用などのでは多くます。 第二 (1) - Cannot be separated from Diphenylamine

FORM I SV-2

"Anchijaas

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab N	Name: <u>ENVIROSYST</u>	MS	Contract: <u>6801008</u>			·:
Lab C	ode: <u>Envsys</u>	lase No. : 20101	SAS No. :	_ SDQ No.:	PEMXD	
	x: (sqil/water)	SOIL	Lab Samp	le ID: 930	60876	-
Sampl	e wt/vol:	30.0 (g/mL) G	Lab File		0876D	*.
Level	: (low/med)	LOW	 Date Rec		04/93	
	4 · · ·		•			
	sture:	decanted: (Y/N)		racted: <u>06/</u>	11/93	
Conce	ntrated Extract	Volume: 500.0	(uL) Date Ana	lyzed: <u>07/</u>	02/93	•
Injec	tion Volume:	2.0(uL)	Dilution	Factor:	3.0	_
GPC C	leanup: (Y/N)	<u>У</u> рН: <u>7</u>		M (MITTA)	•	•
	CAS NO.	COMPOUND	CONCENTRATIO (ug/L or ug/		· · · · · · · · · · · · · · · · · · ·	
	1.00-08-2		1		1	t
•	! 111-44-4	Phenol	hull Ethan	740 740	10' (i !
	95-57-8	2-Chlorophenol	42,20.01	740		i
	541-73-1	1,3-Dichlorobe	nzene	740	iŭ	į
;	106-46-7	1, 4-Dichlorobe	nzene	740 -	10	İ
	1 95-50-1	1, 2-Dichlorobe	nseneI	740	10	1
1	: 95-48-7 -		10.2	740	10	t
	: 108-60-1- -	2,2'-oxybis(1-	Chloropropane)_;	740	10	
	1 106-44-5	4-Methylphenol		740	10	1
1	: 621-64-7 -	N-Nitroso-Di-n	-Propylamine <u></u> :	740	1U, 1	1
	67-72-1	Hexachloroetha	ne	_	10	!
i	78-75-3	Ni trobenzene		740	IU I	į.
	78-59-1	Isophorone		740	ĮU į	i
		Z-Nitrophenol_		740	IU I	i .
		2,4-Dimethylph		740	יוט	•
i 4		bis(2-Chloraet		•_ =		•
ţ	¥ -	2.4-Dichloroph		740	10 (•
i	91-20-3	1.2.4-Trichlor	os en zene	• • •	יטו.	l ' I
•	,	4-Chloroanilin		740	iŬ	•
•	· ·	Hexachlorobuta		740		i
•		4-Chloro-3-Met	· · · - · · · · - · · · · · · ·	740		1
	91-57-4	2-Methy Inaphth	alene	740		ì
i			opentadiene	740		Ī
i	88-04-2	2,4,6-Trichlor	cohenci	740	10	Ì
1		2,4,5-Trichlor		1800	· -	1
1	91-58-7	-2-Chloronaphth	alana	,,,,, = = = = .	iu	l
i	88-74-4	2-Nitroaniline	7 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1800		t i
i	131-11-3	Dimethylphthal	ata	740		اسما
•		Acenaphthylene		740	1045	ころみ
4 .			ueness <u>z yskasi</u> lossk	740	10 cp 30	1 ,
3	99-09-2	-3-Nitroaniline		1800	10	1/2- ~
į.	83-32-9	-Acenaphthene		740	10	
·	•				.11_	
-		Ent	DM . T . QUat			/90

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854

Case No.: 20101 SAS No.:

Lab Name: ENVIROSYSTEMS <u>·</u> Contract: /<u>68D10084</u>

SDG Na. : CKW36

Matrix: (soil/water) SOIL

Lab Sample ID:

93060876

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

S060876D

(low/med) LOW Date Received:

06/04/93

decanted: (Y/N) N

Date Extracted: 06/11/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 07/02/93

Injection Volume: _____2.0(uL)

Dilution Factor: 1 2.0

GPC Cleanup:

(Y/N) <u>Y</u>

pH: <u>7.4</u>

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	4.000	1	_i
51-28-52, 4-Dinitrophenol	1800	10	Ţ
100-02-74-Nitrophenol	1500	เบ	1
132-64-9Dibenzofuren	740	10	
121-14-22, 4-Dinitrotoluene!	740	-1U	- 1
_ · · · · · · · · · · _ · _ · · _ · _ · _ · _ · _ · _ · _ · _ · _ · · _ ·	740	IU	Į,
7005-72-34-Chiorophenyl-phenylether	740	10	- 5
86-73-7Fluorene	740	IU	
100-01-6	1800	" IU	
534-52-14, 6-Dinitro-2-methylphenol!		IU	
86-30-6N-Nitrosodiphenylamine (1)	740	10	-
101-55-34-Bromophenyl-phenylether		U	- 1
118-74-1Hexachlorobenzene!	740 -		
87-86-5Pentachlorophenol	1800	% I U	3
85-01-8Phenanthrene	· 740 ·	· : -	
120-12-7Anthracene	740	IU	- 1
86-74-8Carbatole	740	10	ı
84-74-2Di-n-Butylphthalate!	740	: 1U	·
206-44-0Fluorenthene	740	10	· [
129-00-0	740	· - .	
85-68-7Butylbenzylphthalate;	740		- 1
71-74-1	740	10 / "	· .I
56-55-3Benzo(a)Anthracene	740	· IU ·	1
218-01-9Chrysene	740	1U .	. 1
117-81-7bis(2-Ethylheryl)Phthalate		1D	
117-84-0Di-n-Octyl Phthalate	740	. IU	1
205-99-2Benzo(b)Fluoranthene	740	IU	
207-08-9Benzo(k)Fluoranthene	740	. IU ::	(1
50-32-8Bento(4)Pyrene(740	10	1
193-39-5	- 740 .	. IU	• •
53-70-3Dibenz(a, h)Anthracene	740	. IU	rio I
191-24-2	* * * 740 .	::+U \:}	, i .
out of the company of the first of the company of t	manifestation (manifestation of the control of the San San San San San San San San San San	37 Jak	

FORM I EV-2

3/90

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

Soil 6

___ Contract: 68010084

SOLL-LO

EPA SAMPLE NO.

Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No.: CKW36

Matrix: (soil/water) SCIL

Lab Sample ID:

93060848

- Cord

Lab Name: ENVIROSYSTEMS

30.0 (g/mL) 3

Lab File ID: <u>5060848</u>

Level: (low/med) LOW :

Date Received: 06/03/93

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 06/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 06/30/93

Injection Volume: ______ 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

CAS NO.

Sample wt/vol:

(Y/N) Y pH: 7.5

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/KG</u> Q

370 10 : 111-44-4-----bis(2-Chloroethul)Ether___ 370 ľU : 95-37-9-----2-Chlorophenol_ 370 IU : 541-73-1----1, 3-Dichlorobenzene_ 370 10 370 IU 95-50-1-----1, 2-Dichlorobenzene 370 10 --2-Methulphenol 370 IU 1.108-60-1----2,2'-oxybis(1-Chloropropane)_{ 370 !U : 106-44-5----4-Methylphenol___ 370 IU | 621-64-7----N-Nitroso-Di-n-Propylamine_ 370 IU : 67-72-1----Hexachloreethane____ IU 370 1 78-75-3-----Nitrobenzene ---370 IU 1 78-59-1-----Isophorone__ IU • 370 **1370** IU : 88-75-5----2-Nitrophenol 370 IU : 105-67-9-----2,4-Dimethulphenol_ : 111-91-1----bis(2-Chloroethoxy)Methane_ 370 10 370 ıU 1 120-83-2----2, 4-Dichlorophenol_ 1 120-82-1-----1, 2, 4-Trichlorobenzene_ 370 ıu 1 91-20-3-----Naphthalene 370 10 370 ıU 1 106-47-8-----4-Chloroaniline 370 IU | 87-68-3-----Hexachlorobutadiene ---4-Chloro-3-Methylphenol_ 370 IU ; 91-57-6----2-Methylnaphthalene___ 370 ٤U :U : 77-47-4-----Hexachlorocyclopentadiene_ 370 IU ----2,4,6-Trichlorophenol_ 370 1 88-06-2-------2,4,5-Trichlorophenol_ 890 !U ! 91-58-7----2-Chloronaphthalene_ 370 ľU 890 ----2-Nitroaniline <u>common b</u> 1 131-11-3-----Dimethylphthalate IU 370 IU 370 1 208-94-8-----Acenaphthulene___ IU ----2,6-Dinitrotoluene -370 1 606-20-2---IU 99-09-2----3-Nitroaniline_ **890** 370 10 -Acenaphthene

FORM I SV-1

648

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ENVIROSYSTEMS Contra	ct: 68010084 CKW36
1 ab Code: ENVEYS Case No.: 20101 SAS No	o.: SDG No.: CXW36
Matrix: (soil/water) SOIL	Lab Sample ID: 93060848
Sample wt/vol: 30.0 (g/mL) G	Lab File ID: S060848
Level: (low/med) LOW	Date Received: 06/03/93
% Moisture: 10 decanted: (Y/N) N:	Date Extracted: 06/10/93
Concentrated Extract Volume: 500.0 (uL)	Date Analyzed: 06/30/93
Injection Volume: 2.0(uL)	Dilution Factor: 1.0
	ONCENTRATION UNITS: ug/L or ug/Kg) <u>Ug/Kg</u> Q
: 51-28-52,4-Dinitrophenol : 100-02-74-Nitrophenol	890 IU
132-64-9Ditenzofuran 121-14-22,4-Dinitrotoluene	370 IU I
# 84-44-2Diethylphthalate	I 370 IU I
: 86-73-7Flugrene	I 370 IU I
100-01-64-Nitroaniline 534-52-14, 6-Dinitro-2-methylph	890 IU I
# 86-30-6N-Nitrosodiphenylamine	e (1)1 370 1U
: 101-55-3	ther! 370 U
87-86-5Pentachlorophenol	
/ 85-01-8Phenanthrene	370 10
120-12-7Anthracene	I 370 IU I
1 86-74-8Carbazole	1 370 IU I
: 84-74-2Di-n-Butylphthalate	130 IBJ
206-44-0Fluorenthene	! 370 IU
1 129-00-0	370 IU
: 85-68-7	<u></u>
56-55-3Benzo(a)Anthracene	370 10 1
218-01-9Chrusene	370 10 1
: :17-91-7bis(2-Ethylhexyl)Phtha	
! 117-84-0Di-n-Octyl Phthalate	
1 205-99-2Benzo(b)Fluoranthene	170 13
: 207-08-9Benza(k)Flugranthene	
1 50-32-8Benzo(a)Fyrene	370 [U
1 193-39-5Indeno(1, 2, 3-cd)Pyrene	
: 53-70-3Dibenz(a,h)Anthracene_	370 10 6774
	370 IU DIXW
(1) - Cannot be separated from Diphenyla	mine 70

FORM I SV-2

AR000339 644

SEMIVOLATILE ORGA	NICS ANALYSIS DATA S	SHEET	· —	·
Lab Name: <u>ENVIROSYSTEMS</u>	Contract:	68D10084	OKM36	æs.
Lab Code: <u>ENVSYS</u> . Case No.	: <u>20101</u> SAS No.:		No.: CK	W36
Matrix: (soil/water) SOIL	· · · · · · · · · · · · · · · · · · ·	Lab Sample ID:		
		•	·	
Sample wt/vol: 30.0	(g/mL) <u>g</u>	Lab File ID:	506084	8R
Level: (low/med) LCW		Date Received:	06/03/	93
% Moisture: <u>10</u> decents	14: (Y/N) <u>N</u>	Date Extracted	: 06/10/	<u>'93</u>
Concentrated Extract Volume:	500.0 (UL)	Date Analyzed:	04/30/	<u>93</u>
Injection Volume:2.0(c	٠	Dilution Facto	r: <u> </u>	1.0
GPC Cleanup: (Y/N) Y	oH: 7.5			•
CAS NO. COMPO	CONC	ENTRATION UNIT	_	
CAS NO. CONFO	(097	L or ug/Kg) <u>UG</u>	<u> </u>	<u> </u>
: 108-95-2		· · · · · · · · · · · · · · · · · · ·	370 IU	1
: 111-44-4bis(2	-Chloroethul)Ether	The state of the s	370 10	. \$
95-57-82-Ch	araphenal		370 10	i
: 95-57-82-Ch] : 541-73-11,3-2	ichlorobenzene	<u>#1</u>	370 IU	į
106-46-71,4-5	ichlorobenzene	<u> </u>	370 IU	1
: 95-50-1 1, 2-5	ichiorobenzene	t et l	370 IU	
: 95-48-72-Met	hylphenol	<u> </u>	370 IU	1 -
108-60-12,2'-	oxybis(1-Chloroprop	ane)_f	370 · IU	` 1 <u> </u>
1 106-44-54-Met	hylphenol		370 IU	
: 621-64-7N-N1t			370 IU	
: 67-72-1Hexac	nloroethane		370 10	1
: 98-95-3Nitro : 78-39-1Isoph	Denzene		370 IU	- i
			370 IU	
: 88-75-52-Nit	rophenol		370 (U 370 (U)	
111-91-1			370 IU	
120-83-22, 4-8			370 IU	· •
120-82-11, 2, 4			370 IU	2 i
1 91-20-3Naph t	_		370 IU	1
1 106-47-84-Ch1	orcaniline	<u> </u>	370 - IU	1
! 87-68-3 Hexac	hlorobutadiene:	·	370 IU	1
: 59-50-74-Ch1		•	370 IU	ţ
! 91-57-62-Met			370 IU	
! 77-47-4Hexac		· ·	370 IU	ĭ.
: 88-04-22, 4, 4			370 IU 890 IU	
1 95-95-42, 4, 5			890 IU 370 IU	1
91-58-72-Ch1 88-74-42-Nit			370 IU	: i
131-11-3Dimet			370 IU	_
: 208-76-8Acena			370 - IU-	
. : 606-20-22, 6-D		<u> </u>	370.00 N	, , ,
# 1 99-09-23-Nit	roaniline		890 IU	Think
1 83-32-9Acena	phthene	A CONTRACTOR OF THE STATE OF	370 IU	120
1	· · · · · · · · · · · · · · · · · · ·	·- <u>1</u>	1	1;7

AR000340

3/90

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

Lab Name: ENVIROSYST	EMSCon	tract: <u>68010084</u>	CKW36RE"
	Case No.: 20101 SA	· · · · · · · · · · · · · · · · · · ·	No. : <u>CKW36</u>
Matrix: (soil/water)	SOIL	Lab Sample ID:	93060848
Sample wt/vol:	30.0 (g/mL) G	Lab File ID:	S060848R
Level: (low/med)	Low	Date Received:	06/03/93
% Moisture: 10	decanted: (Y/N) N	Date Extracted	1: 06/10/93
Concentrated Extract	Volume: 500.0 (uL)	Date Analyzed:	06/30/93
Injection Volume:	2.0(uL)	Dilution Facto	or: <u>1.0</u>
GPC Cleanup: (Y/N)	<u>Y</u> pH: <u>7.5</u>	CONCENTRATION UNIT	' s:
CAS NO.	COMPOUND	(ug/L or ug/Kg) Uc	
. : 51-28-5	2,4-Dinitrophenol_		890 IU I
100-02-7	4-Nitrophenol	A Section 1	1 U1 0PB
132-64-9	Dibenzofuran	{	370 IU I
1 121-14-2	2,4-Dinitrotoluene	t	370 IU I
! 84-66-2	Diethylphthalate		370 IU I
1 7005-72-3	4-Chlorophenul-phe	nulether!	370 10 1
: 86-73-7 	Fluorene		370 IU I
100-01-6	4-Nitroaniline	<u> </u>	890 IU I
534-52-1	4,6-Dinitro-2-meth	ylphenoli	890 IU I
: 66-30-6	N-Nitrosodiphenyla	mine (1);	370 IU I
101-55-3	4-Bromophenyl-phen	ylether : : : : : : : : : : : : : : : : : : :	370 IU I
1 118-74-1	Hexachlorobenzene_	<u></u>	370 10 1
1 87-86-5	Pentachlorophenol_	<u> </u>	890 - 41U 1 + 1
1 85-01-8	Phenanthrene	A LONG THE REPORT OF THE SAME	370 IU I
1 120-12-7			370 IU I
1 86-74-8		and the second second	370 : IU : I
1 84-74-2	Di-n-Butulphthalat		140 IBJ I
1 206-44-0	Flucranthene	a to the part of the second of	370 T IU I
1 129-00-0			370 IU I
1 85-68-7	Suty 1benzy 1ph thala	tė	370 IU I
	3.3'-Dichlorobenzi		370 IU I
1 56-55-3	Benzo(a)Anthracene	<u> </u>	370 IU I
: 218-01-9	Chrusene	<u> </u>	370 IU 🕆 : I
	bis(2-Ethylhexyl)P	hthalatei	370 IU I
	Di-n-Octul Phthala		370 IU I
	Benza(b)Fluoranthe		160 IJ 1
1 207-08-9	Benzo(k)Fluoranthe	NO <u>salah salah bi</u> li jerbah salah s	370 10 1
1 50-32-8	Benzo(a)Pyrene	<u>a karana karana ka</u>	370 L IU - I
1 193-39-5	Indena (1, 2, 3-cd) Py	rene <u>, mar var</u> lijas irida, saa	370 : 10 : 1 L. L
1 53-70-3	Dibenz(a, h)Anthrac	¢ne <u>, i ji kaba</u> taya kabana ka	370 IU KVV
. 1. 191-24-2	Benza(g.h.i)Perule:	ne <u>i ki ki ni ni ni ki ki i i ni li</u> li ji ni iliye waliwa masa kw	370 % 10 % ~~~~
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second of th	A to the second of the second	La trop a librar la tradition de la Constantia
(1) - Cannot be	secarated from Diohe	nulamine was been some one	元を受い ベガン

FORM I SV-2

TEST

SEMIVULATILE ORGANICS ANALYSIS DATA SHEET 50il 7 CXW37 Lab Name: ENVIROSYSTEMS Contract: 68010084 Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No.: CXW34 Matrix: (soil/water) SGIL Lab Sample ID: 93060877 30.0 (g/mL) 3 Lab File ID: Sample wt/vol: 5060877 (low/med) LOW Level: Date Received: 06/04/93 % Moisture: decanted: (Y/N) N ___ Data Extracted: 06/11/93 ___18 Concentrated Extract Volume: 300.0 - (uL) Date Analyzed: 07/02/93 Injection Volume: 2.0(uL) Dilution Factor: GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7.5</u> CONCENTRATION UNITS: CAS NO. COMPOUND :

CAS NO.	COMPOUND (E	nd/r or nd/kd)	<u>ng/kg</u>	G	•
108-95-2		!	400	10	
111-44-4		2	400	Ü	i
95-57-8	2-Chlorophenol	· · ———	400	iŭ	i
541-73-1	1.3-Dichlorobenzene	 ;	400	iŭ	i
104-44-7	1, 4-Dichlorobenzene		400	iŬ	i
: 95-50-1	1, 2-Dichlorobenzene		400	iŬ	i
1 95-48-7	2-Methulphenol		400	ĮŪ.	1
108-40-1	2-Methylphenol	(ensee	400	IU	i 🔾
1 106-44-5	4-Methylphenol		400	IÜ	1
1 621-64-7	N-Nitroso-Di-n-Propula	aine	400	1U	1
			400	IU	1
: 98-95-3	Nitrobenzene		400	ĮU -	• 1
: 78-59-1	Isophorone		400	IU '	ŧ
: 88-75-5	2-Nitrophenol	6 (4) The	· 400	· IU	1
: 105-67-9	Isophorone 2-Nitrophenol 2,4-Dimethylphenol	<u> 1 4 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</u>	400	10	1.
111-91-1	bis(2-Chloroethoxu)Met	thane1	400	ĮŪ	1 .
: 120-83-2	2,4-Dichlorophenol		400	IU	t
: 120-82-1	1, 2, 4-Trichlorobenzene		400	IU	ŧ
91-20 - 3	Naphthalene	7.	400	IU	ŧ
: 100-47- 0	4-Cnlorganiline	i	400	IU ,	1
: 87-68-3 	Hexachlorobutadiene		400	IU	1
: 59-50-7	4-Chloro-3-Methylpheno	1 7	400	ĮŪ	1
91-57-6	2-Mothulnsohthsiane	• •	400	;U	1
77-47-4			400	ĮŪ	1
88-04-2	2.4.6-Trichlorophenol_ 2.4.5-Trichlorophenol_ 2-Chloropachthaloge	t	400	10	· • • • • • • • • • • • • • • • • • • •
95-95-4	2,4,5-Trichlorophenol_	1	980	10	1
. ,			400	IU	
88-74-4	2-Nitroaniline		980	IU	1
131-11-3	2-Nitroaniline Dimethylphthalate	*	400	IU	
208-94-8	Acenaphthylene		400	"IU"	WIND
606-20-2	2,6-Dinitrotoluene	Carter a Marine Contract	400	` 1U :	- NEW
99-09-2	DimethylphthalateAcenaphthylene2,5-Dinitrotoluene3-Nitroaniline	And the second second	980		
83-32-9	Acenaph thene	Contract Carlot	400	JIN 🕢	12:2
1				_1	・プ

FORM I SV-1

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	·		•	: ÇKW37	•
Lab	Name: <u>ENVIROSYS</u>	TEMS	Contract: <u>6801008</u>		-
30	Code: ENVSYS	Case No.: 20101	SAS No. :	SDG No.: CKI	N34_
Matr	ix: (soil/water) <u>SOIL</u>	Lab Samp	le ID: 9306087	77
Samp	le wt/vol:	30.0 (g/mL) <u>G</u>	Lab File	ID: <u>5060877</u>	7
Leve	1: (low/med)	<u>LOR</u>	Date Rec	eived: 06/04/5	93
. Ma:	isture: <u>18</u>	decented: (Y/N)	N Date Ext	racted: <u>06/11/5</u>	73
anci	entrated Extrac	t Volume: <u>500.0</u>	_(uL) Date Ana	lyzed: <u>07/02/</u> 5	73
Injed	ction Volume: _	2.0(uL)	Dilution	Factor:	<u>. o</u>
PC (Cleanup: (Y/N) <u>Y</u> pH: _7		<u> </u>	.*
	CAS NO.	COMPOUND	CONCENTRATIO		3
	410 110.				-
					i
	1 100-00-7	2,4-Dinitrophe	inal	980 IU	
-	1 100-02-/	i-Nitrophenol_ Dibenzofuran_		780 1U	i
	1 131-14-3	2,4-Dinitrotol	***************************************	400 IU 400 IU	•
	1 21-14-2	Diethylphthala	. Vene		
	1 7005-70-2	Dietnyiphenale		400 IU	
٠	7005-72-3	4-Chloropheny1	-buendieruer	400 IU	
, ,	1 86-73-7	Fluorene		400 IU	
		4-Nitroaniline		980 JU	I
	: 534-52-1	4, 6-Dinitro-2-	-methylphenol1	980 IU .	ı
	: 86-30-6	N-Nitrosodiphe	inglamine (1):	400 IU	1
	: 101-55-3	4-Bromopheny 1-	·phenylether:	400 1 TU	1
	1 118-74-1	Hexachlorobenz	tene	400 IU	1
	: 87-84-5	Pentachlorophe	inel	980 · IU	1
*	: 65-01-6	Phenanthrene		√ 640 I	
1		Anthracene	10 m 10 m 10 m 10 m 10 m 10 m 10 m 10 m	400 IU	1
		Carbazele	100	400 IU	. 1
•		Di-n-Butylphth	alata	2000 18	1
,	! 204-44-0	Fluoranthene_		± 570 l	
•				450	, ,
		Butylbenzylpht		180 IJ	
	61-68-/	Boedrosus Atbue	nalate		
	71-74-1	3,3'-Dichlarob	entidine	400 IU	
;		Benzo(a)Anthra	cene	150 IJ	į.
	1 218-01-9			160 IJ	
	117-81-7	bis(2-Ethylhex	yi)Phthalatei	1800	Ī
	117-84-0	Di-n-Octyl Pat	:halatel	400 IU	. 1
	205-99-2	Benzo(b)Fluora	inthenel ···	460 1 1	; I
		Benzo(k)Fluora		400 × (U 🕾	
	1 50-32-8	Benzo(a)Pyrene	and the second section of	400 IU	
	1 193-39-5	Indeno(1, 2, 3-c	d)Pyrenei	400 IU	* YIK
	1 53-70-3	Dibenz(a, h)Ant	hracene	400 IU	DAL
, ü	1 191-24-2	Benza(d.h. i)Pa	rylene <u>as a complete</u>	400 - IUA	~!
- 10 <u>-</u> 12 - 12	61.65 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AND THE PROPERTY OF THE PROPER	A Section Complete and Company	and the second s	

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SEMIVULATILE CREANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9060877R

06/04/93

Lab File ID:

Date Received:

CONCENTRATION UNITS:

CKW37RE"

Lab Name: ENVIROSYSTEMS Contract: 68010084

30.0 (g/mL) G

Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No.: CKW36

Matrix: (soil/water) SOIL .Lab Sample ID: 93060877

Level: (low/med) LOW

Date Extracted: 06/11/93 % Moisture: ___18 decanted: (Y/N) N__

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/06/93

Dilution Factor: 5.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) Y pH: 7.5

Sample wt/vol:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Œ

2000 10 : 111-44-4-----bis(2-Chloroethyl)Ether____ 2000 IU : 95-57-8----2-Chlorophenol__ 2000 IU 2000 10 2000 IU 95-50-1-----1, 2-Dichlorobenzene_ 2000 IU : 95-48-7----2-Methylphenol_ 2000 IU ! 108-60-1----2, 2'-oxybis(1-Chloropropane)_! 2000 IU 2000 : 106-44-5-----4-Methylphenol_ IU : 621-64-7----N-Nitroso-Di-n-Propylamine_ 2000 IU 1 67-72-1-----Hexachloroethana 2000 IU : 98-95-3-----Nitrobenzene____ IU 2000 : 78-59-1------Isophorone___ - 2000 10 : 88-75-5-----2-Nitrophenol_ 2000 10 1 105-67-9----2, 4-Dimethylphenol___ 2000 IU 1 111-91-1------bis(2-Chloroethoxy)Methane___ 2000 IU 2000 · 1U : 120-83-2----2, 4-Dichlorophenol_____ i 120-82-1----1, 2, 4-Trichlorobenzene___ 2000 IU : 91-20-3-----Naphthalene_ 2000 เบ ! 106-47-8-----4-Chloroaniline_ 2000 IU 2000 IÜ : 87-68-3----Hexachlorobutadiene___ : 59-50-7----4-Chloro-3-Methylphenol___ 2000 10 : 91-57-6----2-Methylnaphthalene____ 2000 IU 1 77-47-4-----Hexachlorocyclopentadiene_ 2000 10 2000 IU ---2,4,6-Trichlorophenol____ IU 4900 1 95-95-4-----2, 4, 5-Trichlorophenol_ 2000 IÜ ! 91-58-7----2-Chloronaphthalana___ 4900 10 | 88-74-4----2-Nitroanilina____ 1U 1 131-11-3----Dimethylphthalate 2000 208-94-8----Acenaphthylene Ü 2000 1 606-20-2----2, 6-Dinitrotoluene IÜ. 2000 IU # | 99-09-2----3-Nitroaniline__ 4900 - 1 83-32-9----Acenaphthene 2000 10

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FORM I SV-2

AR000345

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(1) - Cannot be separated from Diphenylamine

SEMIVOLATI	LE URGANICS ANALY	YSIS DATA SHEET	5014121	
			: CX	(W42
Lab Name: <u>ENVIRCSYST</u>	EMS	Contract: 68010	084 :	
Lab Code: ENVSYS	Case No.: 20101	SAS No. :	SDG No. :	CKW36
Matrix: (soil/water)	SOIL	Lab Sa	mple ID: <u>930</u>	60865
•		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		
Sample wt/vol:	30.0 (g/mL) G	Lab Fi	1 • ID: <u>506</u>	0865R
Level: (low/med)	LOW	Date R	eceiwed: 06/	04/93
% Maisture: <u>16</u>	decanted: (Y/N)	N Date E	xtracted: 06/	11/93
Concentrated Extract	Volume: 500.0	_(uL) Data A	nalyzed: <u>07/</u>	106/93
Injection Volume:	2. O(uL)	Diluti	on Factor:	10.0
				
GPC Cleanup: (Y/N)	<u>Y</u> pH: _7	<u>. 3</u> Concentrat	TON UNITE:	
CAS NO.	COMPOUND		alka) nalka	<u> </u>
				 -
108-95-2	3hanal	i	3900	
	bis(2-Chloraet	hullEther	3900	10
95-57-8	2-Chlorophenol		3700	
: 541-73-1	1.3-Dichlorobe	nzene	3900	iŭ i
1 104-44-7	1,4-Dichlarobe	nzene	3900	_
: 95-50-1	1, 2-Dichlorobe	nzene	3900	10 1
1 95-48-7	2-Methylphenol		3900	10 1
1 108-40-1	2,2'-oxubis(1-	Chloropropane)_:	3900	iu i
1 106-44-5	4-Methylphenol		3900	10 1
: 621-64-7	N-Nitroso-Di-n	-Propulamine	3900	10 1
1 67-72-1	Hexachloroetha	ne	3900	10 1
1 78-75-3	Nitrobenzene	e e de la companya de la companya de la companya de la companya de la companya de la companya de la companya d	3900	10
78-59-1	Isophorone		3900	iu i
88-75-5	2-Nitrophenol		3900	iŭ i
1 103-47-9	2,4-Dimethylph	enal	3900	iŭ
1 111-91-1	bis(2-Chloroet	hory Methane	3900	iu i
120-83-2	2,4-Dichloroph	eno!	3900	iŭ i
	1, 2, 4-Trichlor		3900	iù
	Naphthalene		3900	iŭ
	4-Chloroanilin		3900	iŭ i
	Hexachlorobuta		3900	iŭ
1 59-50-7	4-Chloro-3-Met	hulahanalis	- 3900	iŭ i
! 91-57-A	2-Methylnaphth	31aaa	3900	iŭ i
1 77-47-4	Hexachlorocycl	on entadiene	3900	iŭ
1 88-0A-2	2, 4, 6-Trichlor	onhand!	3900	iŭ
1 95-94-4	2. 4. 5-Trichlor	onhano!	9500	iŭ
1 91-50-7	2-Chloronaphth		3900	iŭ
! 88-74-4	2-Nitroaniline	- • = !! =	9500	iu
! 131-11-3	Dimethylphthal	3 * 6	3900	iŭ
*! 208=04=0=====	Adanaph thy lene		3900	וט לבה
1 ACA-20-2	2, 4-Dinitrotol	tan Aller of the control of	3700	LKIF UI
_ ! 69_A6_2	3-Nitroaniline	1 / 4 2 1 1 2 2 2 2 2 2 2 2 2 2	9500	10
			3900	1 L 17/A
	ta et a e e e e e e e e			行(ロバラフ
• • • • • • • • • • • • • • • • • • •		RM I SV-1		3/90

EX

CKW42 Lab Name: ENVIROSYSTEMS Contract: 68010084 Case No.: 20101 SAS No.: ____ SDG No. : <u>CKW36</u>_ 'b Code: ENVEYS_ Matrix: (soil/water) SCIL Lab Sample ID: 93060865 30.0 (g/mL) G Lab File ID: Sample wt/vol: 5060865R_ (low/med) <u>LOW</u> Level: Date Received: 06/04/93 % Moisture: 16 decanted: (Y/N) N Date Extracted: 06/11/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/06/93 Injection Volume: _____2,0(uL) Dilution Factor: ____10.0 GPC Cleanus: (Y/N) <u>Y</u> pH: <u>7.3</u> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG - Q 9500 : 51-28-5-----2, 4-Dinitrophenol_____ 1 100-02-7----4-Nitrophenol____ **9500** ⁻ 3900 : 132-64-9-----Dibenzofuran__ 3900 1 121-14-2----2, 4-Dinitrotoluene ! E4-66-2-----Diethylphthalate__ 3900 · 1U 7005-72-3----4-Chlorophenyl-phenylether___ 3900 10 1 100-01-6-----4-Nitroaniline : 84-73-7-----Fluorene____ 3900 1U 9500 IU | 534-52-1----4,6-Dinitro-2-methylphenol___| | 66-30-6----N-Nitrosodiphenylemine (1)___| 9500 3900 * 1U 1 101-55-3-----4-Bromophenyl-phenylether____1 3900 1 118-74-1----Hexachlorobenzene____1 3900 1U | 87-84-5-----Pentachlorophenol____ 9500 ' : 85-01-8-----Phenanthrene___ **1400** 3900 1 86-74-8------Carbazole_ 3700 IU : 84-74-2-----Di-n-Butylphthalate____ 3700 **""3400** 🐇 1 129-00-0-----Pyrene_ 2000 # 85-68-7------Butylbenzylphthalate 3900 | 91-94-1----3,3'-Dichlorobenzidine____ 3900 1 56-55-3-----Benze(a)Anthracene___ 1300 9900 | 117-81-7-----bis(2-Ethylheryl)Phthalate___! 3900 ! 117-84-0----Di-n-Octyl Phthalate____ 3900 10 1 205-99-2----Benzo(b)Fluoranthene____ 3000 1 207-08-9----Benzo(k)Fluoranthene____ 3900 3900 1 50-32-8-----Benzo(a)Pyrene____ / 193-39-5----Indeno(1,2,3-cd)Pyrene____ 3900 1 53-70-3-----Dibenz(a, h) Anthracene_____! 3900 --- 10 --1 3900 TU 1. 191-24-2-----Benzo(g, h, i)Perylene___ Hart for the transfer of the t

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

eta sample no.

CXW42RE: Lab Name: ENVIROSYSTEMS ____ Contract: 68D10084 Case No.: 20101 SAS No.: ____ SDG No.: CHW36 Lab Coda: ENVSYS Matrix: (soil/water) SOIL - . . . Lab Sample ID: 93060865 30.0 (g/mL) Q Lab File ID: Sample wt/vol: 9040845 Level: (low/med) LOW Date Received: 06/04/93 Date Extracted: 06/11/93 % Moisture: ___16 decanted: (Y/N) N__ Concentrated Extract Volume: 500.0 (uL) ... Date Analyzed: 07/02/93 Injection Volume: _____ 2.0(uL) (Y/N) <u>Y</u> pH: <u>7.3</u> GPC Cleanup: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG : 108-95-2----Phenol__ 20000 IU : 111-44-4-----bis(2-Chloroethyl)Ether ____ 20000 HU 20000 IU | 95-37-8----2-Chlorophenol_ 20000 IU 1 104-44-7-----1, 4-Dichlorobenzene___ 20000 10 1 95-50-1-----1, 2-Dichlorobenzene 20000 IU ! 95-48-7----2-Methylphenol_ 20000 IU | 108-60-1----2,2'-oxybis(1-Chloropropane)_| 20000 IU | 106-44-5----4-Methylphenol____ 20000 10 : 621-64-7----N-Nitroso-Di-n-Propylamine_ 10 20000 : 67-72-1-----Hexachloroethane____ 20000 10 | 98-95-3-----Nitrobenzene____ 20000 IU. : 78-59-1-----Isophorone___ IU 20000 : 88-75-5----2-Nitrophenol_ 20000 IU 20000 IU : 105-67-9-----2, 4-Dimethylphenol_ 1 111-91-1-----bis(2-Chloroethoxy)Methane_ 20000 10 : 120-83-2----2, 4-Dichlorophenol____ 20000 IU : 120-82-1----1, 2, 4-Trichlorobenzene____ 20000 IU : 91-20-3-----Naphthalene___ 20000 . IU : 106-47-8-----4-Chlorcaniline 20000 10 20000 IU : 87-68-3-------Hexachlorobutadiene_ : 59-50-7-----4-Chloro-3-Methylphenol____ 20000 IU : 91-57-6----2-Methylnaphthalene____ 20000 IU 10 20000 1 77-47-4----Hexachlorocuclopentadiene 1 88-06-2----2, 4, 6-Trichlorophenol____ 20000 10 i 95-95-4----2, 4, 5-Trichlorophenol____ 48000 IU 1 91-58-7----2-Chloronaphthalene____ 20000 10 IU 48000 | 88-74-4----2-Nitroaniline____ 20000 IU . | 131-11-3----Dimethylphthalate 20000 : IU : 208-96-8----Acenaphthylene____ 20000 # IU # | 99-09-2----3-Nitroaniline_ 48000 IU 1 83-32-9-----Acenaphthene 20000 IU

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(1) - Cannot be separated from Diphenylamine

191-24-2-----Benzo(g, h, 1)Perylene__

1 207-08-9----Benzo(k)Fluoranthene

| 50-32-8----Benzo(a)Pyrene______

1 193-39-5----Indeno(1, 2, 3-cd) Fyrene 20000 1 53-70-3-----Dibenz(a, h) Anthracene 20000

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| 205-99-2----Benzo(b)Elugranthene__

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1 20000

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Soil 14

Lab Name: <u>ENVIROSYSTEMS</u> Contract: <u>68010084</u> :______

Lab Code: ENVSYS Case No.: 20101 SAS No.: SDG No.: CXW36

Matrix: (soil/water) <u>SCIL</u> Lab Sample ID: <u>93060836</u>

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060866

Level: (low/med) <u>LCW</u> Date Received: <u>06/04/93</u>

% Moistura: <u>39</u> decanted: (Y/N) <u>N</u> Date Extracted: <u>06/11/93</u>

Concentrated Extract Volume: 500.0 (uL) Data Analyzed: 07/02/93

GPC Cleanup: (Y/N) Y pH: <u>6.9</u>

PC Cleanup: (Y/N) <u>Y</u> pH: <u>6.9</u> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>Ug/K</u>g (

	and the second s		.1	_;
108-95-2	· · · · · · · · · · · · · · · · · · ·	540	10	· !
	bis(2-Chlorosthyl)Ether	540	10	i
75-57-B	2-Chlorophenol	540		
	1, 3-Dichlorobenzene	1 540	10	
1 104-46-7	1, 4-Dichlorobenzene	1 540	IU	
1 95-50-1	1, 2-Dichlorobenzene	1 540	IU	ł
1 95-48-7	2-Methylphenol	1 540	–	ŧ
1 108-60-1	2.2'-oxybis(1-Chloropropane)_		ישו	1
1 104-44-5	4-Methylphenol	1 540	· 10:	
	N-Nitroso-Di-n-Propylamine	1 340°	(U	1
1 67-72-1	Hexachloroethane	540	IU -	1
1 98-95-3	Nitrobenzene	1 540	10	1
: 78-59-1	Isophorone	540	10	
: 88-75-5 -	2-Nitrophenol	1 540 .	. IU ⊸	
: 105-67-9 -	2.4-Dimethylphenol	1 7 ,540	1.0	· 1
111-91-1	bis(2-Chloroethoxy)Methane	540	10	1
	2,4-Dichlorophenol		1U *	ŧ
120-82-1	1, 2, 4-Trichlorobenzene	1 540	IU	1
91-20-3	Naphthalene	1 540	IU -	ŧ
104-47-8	4-Chloroaniline	540	IU	. :
87-68-3	Hexachlorobutadiene	540	10	1
59-50-7	4-Chlora-3-Methylphenol	540	IU.	• 1
91-37-6	2-Methylnaphthalene	340	ាម 🐇	1
77-47-4	Hexachlorocyclopentadiene	540	IU	i
	2.4.6-Trichlorophenol		-10	1
	2, 4, 5-Trichlorophenol	1300	1U	1
	2-Chloronaphthalene	540	10	1
	2-Nitroaniline	1300	IU -	1
	Dimethylphthalate	540	10	1.
208-94-8	Acenaphthylene	540	ાં∪ે. √	くろんり
: A0A-20-2	2, 6-Dinitrotoluene	540	IU 2	\mathcal{D} / \mathcal{A} / \mathcal{A}
99-09-7	3-Nitroaniline		···IU	
83-32-0	Agenaph thene	540	iŭ	120
on a fine of their contract of the party supplement of	CHICAGO CONTRACTOR CON	and the second s		

FORM I SV-1

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era sample NO

Lab Name: ENVIROSYSTEMS 1 4b. Code: Envsys Case No.: 20101 SAS No.: 200 No.: CXW36 Matrix: (soil/water) <u>SCIL</u> Lab Sample ID: 93040864 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5060866 Level: (low/med) LOW Date Received: 06/04/93 39 decanted: (Y/N) N Date Extracted: 06/11/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/02/93 Dilution Factor: _____1.0 Injection Volume: _____2.0(uL) GPC Cleanup: (Y/N) Y pH: 6.9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND : 51-28-5-----2, 4-Dinitrophenol_____ 1300 U 1 100-02-7-----4-Nitrophenol____ 1300 !U : 132-44-9-----Dibenzofuran____ 540 IU : 121-14-2----2, 4-Dinitrotoluene____ 540 IU *: 540 IU-: 64-66-2-----Diethylphthalate : 7005-72-3----4-Chlorophenyl-phenylether___ 540 IU : 84-73-7------Flugrene___ 340 10 1 100-01-6----4-Nitroaniline____ IU 1300 : 534-52-1-----4, 6-Dinitro-2-methylphenol____ 1300 : U 1 86-30-6----N-Nitrosodiphenylamine (1) 540 10 ! 101-55-3-----4-Bromophenyl-phenylether___! 540 10 _i^ 540 · : 118-74-1-----Hexachlorobensene : 87-86-5------Pentachlorophenol :U IU. . 1300 ,340 IJ 1 120-12-7-----Anthracene___ 540 U 1 86-74-8------Carbazole 540 :U : 430 : E 1 E4-74-2----Di-n-Butylphthalate 1 206-44-0----Fluorenthene 1, - '830 490 540 540 IU 1 54-55-3#======Benzo(a)Anthracene 310 TJ 290 1 218-01-9-------Chrusene_ ! 117-81-7----bis(2-Ethylhexyl)Phthalate___! 250 1 J | 205-99-2----Benzo(b)Fluoranthene____ 740 | 207-08-9-----Benzo(k)fluoranthene | 50-32-8------Benzo(a)Pyrene____ - 1 - 350 · 350 · **** ***540` 🕅 Û 🕸 * (1) - Cannot be separated from Diphenylamine

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	CAS NO.	COMPOUND	(ug/L or ug/K	g) UG/KG	, · · · ·	<u>a</u>
:	108-75-2			2200	T U	
1	111-44-4	bis(2-Chloroet	hul)Ether !	2200	IU	1
:	95-57-8	2-Chlorophenol		2200	TU	1
1	. 541-73-1	1.3-Dichlorobe	nzene	2200	IU	ŧ
1	106-46-7	1, 4-Dichlorobe	nzene	2200	ŧυ	
ı	95-50-1	1, 2-Dichlorobe	nzenet	2200	10	İ
1		2-Methylphenol		2200	10	1
:	108-60-1	2, 2'-oxybis(1-	Chloropropane)_;	2200	10	1
i	104-44-5	4-Methylphenol		2200	1U"	1
ŧ	421-44-7	N-Nitroso-Di-n	-Propylamine!	2200	IU	1
i	67-72-1	Hexachloroetha	net	2200	IU	1
1	78-75-3	Nitrobenzene	<u> </u>	2200	IU	1
į	78-59-1	Isophorone	<u> </u>	. 2200 ::	្តរប	S
ŧ	88-75-5	2-Nitrophenol_	<u> </u>	2200	-10	ł
i	105-67-9	2, 4-Dimethylph	enolt	2200	IU	1
•		bis(2-Chloroet		2200	-10	1
1		2, 4-Dichloroph		2200	:U	1
ŧ	120-82-1	1, 2, 4-Trichlor	obenzene !	2200	10	1
:		Naphthalene		2200	ัเบ	1 -
1	104-47-8	4-Chloroanilin		2200	IU	. 1
i	87-48-3	Hexachlorobuta	diene	2200	~ ! U	
1	39-50-7	4-Chloro-3-Met	hulphenol"	2200	IU	1
i		2-Methylnaphth		2200	. IU	1
i		Hexachlorocycl		2200	10	1
1		2, 4, 6-Trichlor	· · · · · · · · · · · · · · · · · · ·	2200	IU.	1
İ		2, 4, 5-Trichlor		5300	IU	1
•		2-Chloronaphth		2200	IU	ŧ
•	88-74-4	2-Nitroaniline	1:	5300	IÜ -	
•	131-11-3	Dimethylphthal	ate	-	IU :	dul.
i	208-96-8	Acenaph thy Lene	and the second s	2200	IU	TEXE
		2, à-Dinitrotol			~1U	ر آوپ
İ	99-09-2	3-Nitraaniline		5300	1U	1115
í	83-32-9	3-Nitroaniline	And the second section of the second section of	2200	์ เบิ	3M
•		Line and Line Amanga -			4	- 4.

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SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

CKW61

Lab Name: ENVIROSYSTEMS Contract: 68010064 Case No. : 20101 SAS No. : _____ SDG No. : CKW36 Matrix: (scil/water) SCIL Lab Sample ID: 93060867 Sample wt/vol: _30.0 (g/mL) G Lab File ID: S060867 Level: (low/med) LCW Date Received: 06/04/93 % Moisture: 25 decanted: (Y/N) N Date Extracted: 06/11/93 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 07/02/93 Injection Volume: _____2.0(uL) Dilution Factor: GPC Cleanup: (Y/N) <u>Y</u>___ pH: 4.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG : 51-28-5----2, 4-Dinitrophenol____ 5300 · IU : 100-02-7----4-Nitrophenol____ 5300 10 2200 | 132-64-9------Dibenzofuran__ "I U ! 121-14-2----2, 4-Dinitrotoluene 2200 10 : 84-66-2-----Diethulphthalate 2200 IU IU 1 7005-72-3----4-Chlorophenyl-phenylether__ 2200 : 86-73-7----Fluorene__ 2200 IU : 100-01-6----4-Nitroaniline__ 5300 10 1 534-52-1----4, 6-Dinitro-2-methylphenol_ 5300 10 2200 1 86-30-6----N-Nitrosodiphenylamine (1) IU : 101-55-3-----4-Bromophenyl-phenylether__ 2200 IU ÎU -Hexachlorobenzene___ 2200 5300 ---Pentachlorophenol_ IU : 87-86-5----- 2200 : 85-01-8------Phenanthrene 1U | 120-12-7-----Anthracene____ 10 2200 ! 84-74-8------Carbazole_ 2200 IU : 84-74-2----Di-n-Butylphthalate 2200 IU 1 206-44-0-----Fluoranthene____ 2200 10 IU 2200 1 129-00-0-----Purene____ ---Butylbenzylphthalate_ 2200 1U -· : 85-68-7---- ----3.3'-Dichlorobenzidine 2200 IU 2200 IU -----Benzo(a)Anthracene_____ IÙ 2200 : 218-01-9-----Chrusene__ 2200 IU 1 117-81-7-----bis(2-Ethylhexyl)Phthalate__ 2200 10 1 205-99-2-----Benza(b)Fluoranthene__ IJ 2000 2200 'IU -----Benzo(k)Fluoranthene_ 2200 · 1U 1 50-32-8-----Benzo(a)Pyrene 100 000 | 193-39-5-----Indeno(1,2,3-cd)Pyrene_ 2200 'IU IU 2200 🗈 1 53-70-3-----Dibenz(a,h)Anthracene_ 2200 10 1 191-24-2----Benzo(g, h, i)Perylene (1) - Cannot be separated from Diphenylamine

Parangon.

SEMIVOLA	TILE ORGANICS ANAL		014 16:	
Lab Name: <u>Envirosy</u> s	STEMS	Contract: 6801009	: CXW62.	· ·
Lab Code: <u>ENVSYS</u>	Case No. : 20101	SAS No.:	EDG No.: CKL	43 <u>6</u>
Matrix: (soil/water	·) SUIL	Lab Samp	le ID: 9304088	58
Sample wt/vol:	<u> 30.0</u> (g/mL) <u>Q</u>	Lab File	ID: <u>306086</u> 6	3
_evel: (low/med)	LOW	Date Rec	eived: <u>06/04/</u> 9	93
Moisture: <u>42</u>	decanted: (Y/N)	N_ Date Ext	racted: <u>06/11/</u> 9	?3
Concentrated Extrac	t Volume: <u>500.0</u>	_(uL) Date Ana	lyzed: <u>07/06/</u> 9	23
Injection Volume: _	<u>2. 0</u> (uL)	Dilution	Factor:	1.0
GPC Cleanup: (Y/N	I) <u>Y</u>	4. 4		
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/S	- · - ·	3
1 100-05-0		e 👞 e i i i i i i i i i i i i i i i i i i		<u>:</u>
The state of the s	Phenol bis(2-Chloroe	thul)Ether	970 IU 870 IU	1
: 95-57-9	2-Chloropheno:	1	870 IU	· i
l 541-73-1	1.3-Dichlorobe	enzene!	870 IU	.
104-44-7	1.4-Dichlorobe	enzene	870 IU	1
75-50-1	1, 2-Dichlorob	enzene	870 IU	1
	2-Methylpheno		870 IU	· [
108-60-1	2, 2'-oxybis(1-	-Chloropropane)_!	870 IU	- ! -
1 431-44-3	4-Methylphenol		870 IU	i
1 47-77-1	N-Nitroso-Di-r Hexachloroetha	u-trobitamina	870 IU 870 IU	i
! 08-04-7	Nitrobenzene_	*n*	870 10	1
! 78-59-1	Isophorone		870 10	i
88-75-5	2-Nitrophenol		870 IU	į
	2, 4-Dimethylph		970 IU	İ
	bis(2-Chloroet		870 IU	1
	2, 4-Dichloroph		870 IU	* f
	1, 2, 4-Trichlor		870 IU	t
1 91-20-3	Naphthalene	<u> </u>	970 IU	* •
1 106-47- 8	4-Chlorcanilir		870 LU	- 1
1 87-68-3	Hexachlorobuta		870 IU	
1 59-50-7	4-Chloro-3-Met	thylphenol	. 870 IU	
_	2-Methy Inaph th		870 IU	
1 77-47-4	***************************************		870 IU	1
	2, 4, 6-Trichlor		870 10	;
1 93-93-4	2,4,5-Trichlor	apnenal	2100 IU	;
	2-Chloronaphth		870 IU 2100 IU	
	2-Nitroaniline Dimethylphthal		2100 10 870 10	19 i
	Acenaphthylene		870 IU	1-12
	2,6-Dinitrotol		870 10	ֿיכו
	3-Nitroaniline		2100 IU	A DAY
£ 83-32-9	Acenaphthene		870 IU	SIE
A STATE OF THE STA	Elicipine of special control of the			
· · · · · · · · · · · · · · · · · · ·	FC	IRM I SV-1		3/90
	· · · · · · · · · · · · · · · · · · ·	•		M/4

CHH

	<u>.</u>	- <u> </u>			CXMPS
Lab 1	Name: <u>ENVIROSYS</u>	TEMS	Contract:	68D10084	<u> 5011-16</u>
Lab C	Code: <u>Envsys</u>	Case No.: 20101	SAS No. :	SDC	No. : <u>CKW36</u>
matri	ix: (soil/water) <u>SCIL</u>	Ļ	ab Sample ID:	93040848
Sampl	le wt/val:	<u>30.0</u> (g/mL) <u>G</u>		ab File ID:	5060868
Level	: (low/med)	LCW	ם	ete Received:	06/04/93
% Moi	sture: <u>62</u>	decanted: (Y/N)	<u>N</u> D	ate Extracted:	06/11/93
Conce	ntrated Extract	t Valume: <u>500.0</u>	(uL) D	ate Analyzed:	07/06/93
Injec	tion Volume: _	2. O(vL)	D	ilution Factor	:1.0
GPC C	leanup: (Y/N)) <u>Y</u> pH: <u>_6</u>	. 4	1	
	Market Services			NTRATION UNITS	
	CAS NO.	COMPOUND	(ug/L	or ug/Kg) <u>Ug/</u>	KC G
	1			1	
	1:51-28-5	2,4-Dinitrophe	nel	1 21	100 IU 1
	1 100-02-7	4-Nitrophenol_		; 21	100 10 1
	1 132-64-9	Dibenzofuran		<u>- </u>	170 IU I
	1 121-14-2	2,4-Dinitrotol	uene	t	370 IU I
	1 84-66-2	Diethylphthala	te		70 IU I
i	1 7005-72-3	4-Chlorophenyl	-phenylethe	<u>τ</u> Ι.,	70 IU 1
	1 84-73-7	Flugrene	May 1	<u> </u>	70 IU I
1 1	1 100-01-6	4-Nitroaniline			.00 IU I
	534-52-1	4,6-Dinitro-2-	methylpheno	1{1}	00 IU I
:	1 86-30-6	N-Nitrosodiphe	nylamine (1) <u> </u>	70 IU I
;	1 101-55-3	4-Bromophenyl-	phenylether	1	170 IU I
,	1 118-74-1	Hexachlorobenz	en e		170 IU I
{	1 87-86-5	Pentachlorophe	nel		00 IU I
	·	Phenanthrene	×1		710 J 1
ł		Anthracene		· ·	70 IU I
į	1 86-74-8		: 1 1	·	70 TU 1
		Di-n-Butylphth			'00 IB I
1		Fluoranthene_			00
	129-00-0		# P T T N SECTION # P T N SECTION # P T N		00
		Butylbenzylpht			70 IU
		3,3'-Dichlorob			70 10
		Benzo(a)Anthra	cene		720 IJ
	218-01-9				100 IJ
i		bis(2-Ethylhex			300
		Di-n-Octyl Pht			170 IU I
		Benzo(b)Fluora			100 170 U
		Benzo(k)Fluora			30
1		Benzo(a)Pyrene			
]		Indeno(1,2,3-c Dibenz(a,h)Ant			70 IU 13
1			`	· ·	20 - 231
		Benzo(g.h.i)Pe	LA TAME - No local	The second section of the section of the sect	
	11 - 6	recepted from the	· · · · · · · · · · · · · · · · · · ·		
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•			OM 1 6U-5		. 3/90

SEMIVOLATILE CRGANICS ANALYSIS DATA SHEET

FORM I SV-2

8814

1.00

SED3

Dilution Factor:

EDG No.: CKWZO

Lab Name: ENVIRGEYETEME Contract: <u>68010084</u>

Casa No.: Cotot

Matrice (Edil/Water) Edil Lab Sample ID: 93040833

EAE No.:

Sample Wt/vcl: 30.0 (g/mL) G Lao File ID:

% Moisture: decanted: (Y/N) N 34 Data Recaived: 06/03/93

Extractions (SesF/Cont/Sonc) SONO Date Extracted: 06/08/93

5000 Concentrated Extract Volume: (uL) Date Analyzed: 07/07/93

Injection Volume: 2.00 (uL)

GFC Cleanup: (Y/N) <u>v</u> Sulfur Cleanups (Y/N) N pH: 7.7

CONCENTRATION UNITS: CAS AC. CCMPQUND (us/L or uc/Kc) US/KS

		i	-
3:9-64-6	sipha-BHC	<u>_</u> 2.3 U	
<u> さいターミピーアーーー</u>	3644-3HC	<u></u>	
319-96-6	dalta-3HC	_! 2.31U	
<u> 53-29-9</u>	gamma-SHC (Lindans)	_: 2.3!U	
76-44-5	Heptachlor	_; 2.31U	•
203-00-2	Aldrin	_: 2.3!U	
1024-57-5	Hegtachlor apoxids		
	Endosulfan I	T: 2.31U	•
<u> </u>	Bizidrin	5.71	
7ニーラミーテーーーー	1,4'-DDE :	1 4.5:U	
72-20-8	Endrin	4.510	
33213-45-9	Endosulfan II	4.5IU	
72-54-8		\ 4.51U	
	Endosulfan sulfats	4.5IU	
50-29-3		4.510	
the second secon	Mathoxychlor	Ti 23 IU	, i
	Endrin ketone	4.510	
	Endrim aldehyde	4.510	1
	aipha-Chlordane	7199 15 11976	
	gamma-Chlordane	14 1	
	Toxachene	T 230 IU	
	Argelor-1015		. •
1104-28-2	Araclar-1221	71 10	
1141-15-5	Arcelor-1232	- 45 IU	
3449-21-9			re /
2672-29-6		- 45 IU	
	Aroclor-1254	71 45 U	
	Arcclor-1250		
	THE GEORGE TARREST TO SERVICE THE SERVICE		

SED 4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: (Moisture: 37 decanted: (Y/N) N Date Received: 04/03/93 Extraction: (SecF/Cont/Sonc) SONC Date Extracted: 04/09/93 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/07/93 Injection Volume: 2.00 (uL) Dilution Factor: 1.00				3207	
Tide: F-VEY-E Case No.: 20101 SAE No.: EDG No.: CKWOO Matric: scil/water) ECI	Lac Name: <u>ENK/IPGGYGTS</u> M	.			SF)-4
Samole wt/vol: TO.O (g/mL) G	Tana: <u>Invava</u> Ca	# Mc.: <u>20101</u>			c.: <u>CKW20</u>
Moisturs: 12	Matrik: "scil/water) 🖸	• • ·	Lab S	Bamola IS:	<u> </u>
Cancentrated Extract Volume: SONC Date Extracted: Cancellot Cancentrated Extract Volume: SONC Cul. Date Analyted: O7/07/93 O7	Samole wt/vol:	<u>().೧</u> (g/mL) <u>열</u>	Lab (File ID:	
Concentrated Entract Volume: S000 (uL) Date Analyzed: 07/07/93	% Moisturs: <u>CS</u>	lecanted: (Y/N)	N Date	Received:	06/03/93
Process Proc	Extraction: (SecF/Cor	it/Senc) <u>SO</u>	<u>VC</u> Date	Extracted:	04/08/93
### Cleanup: (Y/N) Y pH: Z.4 Sulfur Cleanup: (Y/N) N CONCENTRATION UNITE: (ug/L er ug/Kg) US/KG Q T10-31-6	Joncantrated Extract Yo	lume: <u>5000</u>	2 (uL) Date	Analyzadı	07/07/93
CAR NG. TIMPOUNE (ug/L cr ug/Kg) Ug/VG G	(njection Volume: 2.00	(uL)	Dilut	ion Factor:	1.00
Tig-34-4	SPC Cleanup: (Y/N) Y	pH: Z	<u>4</u> Sulft	er Cleanup:	(Y/N) <u>N</u>
Tig-34-4zicha-PHC		my of the state o	CONCENTRAT	CN UNITE:	
Tig-35-7	CAS NG. SECTION	IIMPOUND	יעקי'ב בד עק	/K¢) <u>US/KS</u>	G
719-85-7			and the second	1	
T19-86-8		Signamenu		- [
53-59-9					
76-44-8				-	
1024-57-3	74-44-5	gammaromu (Linc	(#UE)	- !	
1024-57-3	1 709-00-7	Tectachior		i i	
717-72-1	/ 1074-00-E	Magrin	445	_ • • • • • • • • • • • • • • • • • • •	2.4.0
\$0-57-1		Ted.4chior epox			
72-32-3					
72-20-5Endrin					and the second s
T3213-65-7			· · · · · · · · · · · · · · · · · · ·		
72-54-84,4'-DDD	! ###V=#=======	Sadagulása II			
1031-07-8Endosulfan sulfate	: 77-54-8	4.4'-DBD		The state of the s	4. A!II
50-29-34,4'-DDT			<u> </u>	■ Total	
72-43-5			A CONTRACTOR OF THE PROPERTY O		and the second s
S3494-70-5Endrin ketone					and the second s
7421-36-3	53494-70-5	Endrin ketone	we in a surject to the con-	a germania akterio	
5103-71-			sa maring and a lar		•
5103-74-0					
240 U 12674-11-2					
12674-11-2Aroclor-1016				1 24	
11104-28-2Araclar-1221		• • • • • • • • • • • • • • • • • • • •	1000	4	6 IU 6
53469-21-9Aroclor-1242					4 1U -
12672-29-6Araclar-1248	1 11141-16-5	Araciar-1232	V	<u> </u>	6 IU
12672-29-6Aroclor-1248	1 53469-21-9	Aroclor-1242	1.5	1 1 A. 120 A. 1	6 ' IU
11097-69-1Aroclor-1254 46 U				1 3 5 44	6 1U
	1 11097-69-1	4roclor-1254	\$ 1 years and the	1 4	6 IU
			A STATE OF THE STA	4	6 1U

FORM I PEST

Speluoha.

AR000357

CHRAIS

RESTOCIOS ORBANICOS ANALYSIS DATA SHEST

SED5

1.00

Lab Name: ENVIRONMENTEMS Contract: 68810084 SAS No.: SDG No.: CKW20 Lab Code: <u>ENVEYS</u> | Case No.: <u>2010:</u> Matrix: (adil/water) <u>ECTL</u> Lab Samola ID: 93040935

<u> 30.0</u> (g/mL) <u>G</u> Sample wt/vel: Lab File ID:

% Moisture: 49 dadantád: (Y/N) N Date Received: 06/03/93

Extraction: (SepF/ContiGenc) Date Extracted: 06/08/93 ECNO

5000 (uL) Date Analyzed: Concentrated Extract Volume: 07/09/93

Injection Volume: 2.00 (uL) Dilution Factor:

GPC Claanup: (Y/N) Y ' Sulfur Claanup: (Y/N) N gH:

CONCENTRATION UNITS: CAS MG. COMPOUND (ug/L or ug/Kg) UG/KG

3.3:0 3.5IU 3.3IU : TE-E9-9----:smma-BHC (Lindane) 3.310 3.3IU 3.3 tu 3.310 3.314 6.5!U 4.5IU 5.5IU : 33213-65-9------ Endosulfan II 4.5IU 4.5IU : 1031-07-8-----Endosulfan sulfata 6.5IU : 50-29-3-----4.4'-DDT_ . 6.5!U 72-43-5-----Methoxychlor 33 IU | 53494-70-5----- Endrin ketone 6.5IU 7421-36= 5103-71-5103-74-6.5IU -Endrin aldehydə_ 11. --eloha-Chlordane ---camma-Chlordane_ 9.31 : 8001-35-2---330 IU -Texaphene : 12674-11-2----Aroclor-1016 45 IU 14. : 11104-28-2----Aroclor-1221 130 ~!U 45 : 11141-16-5----Araclar-1232 ' IU : 53469-21-9----Aroclor-1242 45 : 12572-29-5----Arcclor-1248 45 :11 45 : 11097-69-1----Araclar-1254 14

FORM I PEST

AR000358

May 1357

SED6

Lab Name: <u>SNV:#06Y9T5M6</u> Contract: <u>68010084</u>

SKW27

Matrix: Fadil/water) <u>SCIL</u> SAS No.: SAS No.: Sample ID: STOAGETA

Sample wt/vol: 50.0 (g/mL) 6 Lab File ID:

% Moisture: 45 decanted: (Y/N) N Date Received: 04/03/93

Extraction: (SeoF/Cont/Sonc) SCNC Date Extracted: 06/08/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	ממונס לעבֶּלֶב	ar uç	/Kg) <u>UG/</u>	<u>/x5</u>	. · · · · · · · · · · · · · · · · · · ·	
			<u> </u>		;	_:
	alsna-BHC			31	:U	• :
ことで一名を一ブーーー				- 31	:U	į.
	delta-BHC	·		31	. 1U	I
	gamma-EHC (Lindane)			31	ıU	{
	Hestachlor			31	IU	į
309-00-2			`	31	:U	i
	Hectachlor ecoxide		· · · · · · · · · · · · · · · · · · ·	31	IU -	ł
757-92-3			*	31	't U	i
- 60-57-1			gradient de la compa	- 60	:U	:
72-55-9		7	k ju hou .	- 60 ·	I.U	1
72-20-8		ϵ_{n_i} .	Maria de de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión	- 60	IU ·	ţ
	Endosulfan II	1 100		`	'!U	- 1
72-54-8			Target 1	, 60	10	
	Endosulfan sulfate			60	:U	. :
50-29-3			La garante de la	.60	iu 😘	. :
72-43-5	Methaxychlor			310	IU 🦠	~ ;
53494-70-5	Endrin ketone	<u> </u>			-1U '	•
7421-36-32	Endrin aldehyde .		l to the second	60	:U	1
3103-71-	alpha-Chlordane			48		. 1
5105-74-30	damma-Chlordane	<u> </u>	المراجع المراجع	50		1
8001-35-2	Toxaphene	25 37	•	3100	:U	- ‡
12574-11-2	Aroclor-1016		1947	600	IU '	. :
11104-28-2	Aroclor-1221			1200	1000	:
11141-16-5	Aroclor-1232		i	600	10	1
	Aroclar-1242			600 :	:0	•
	Aroclor-1248	 1 (2) (2) (3) (3))	~600	TU .	7 🕴
	Arcclor-1254	w 194	Service process	600	. IU	11
_	Araclar-1260	No.	· ·		(IU)	i
			•	.=	1	_1
	والمرون والمراب والمراب والمراب والمراب والمراب والمراب والمراب والمراب والمراب والمراب والمرابع والمرابع		-			_

FORM I FEST

PESTIDIES CREAMICS AMPLYSIS DATA SHEET

SED7

Lab Name: SNVIRGEVETEME

Contract: <u>68010094</u>

Lab Icos: <u>FN/375</u> - Case No.: <u>C0101</u>

RAS Mo.:

- EDG Na.: <u>CKWCO</u>

| Matrix: - sail/water) | <u>2位でし</u>

Sample wt/vol:

<u>50.0</u> (g/mL) <u>G</u>

Lab File ID:

Lab Sample ID:

dacantadı (Y/N) <u>N</u>

Date Received: 06/03/93

Extraction: (SepF/Cont/Sono) SENO Data Extracted: 06/08/93

Concentrated Extract Volumes: 5000 (qL) Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

Dilution Factor:

1.00

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

SAS NO.

CCMPQUND

(ug/L or ug/Kg) <u>US/KS</u>

717-84-6	elcha-BHC		i 1	2.3!4
217-55-7	bsta-BHC			2.310
3:9-84-8	delta-BHC		1	2.310
T2-39-7			•	2.310
75-44-8	Heptachlor		1	2.310
309-00-2			1	2.310
	Heptachlor epoxide	_	•	2.314
	Endosulfan I		1	2.310
	Dialdrin		1	4.510
72-55-4	4,4'-DDE	<u> </u>	•	4.51U
72-20-8	Endrin		1	4.514
 	Endrin Endosulfan II		1	4.514
72-54-8	4, 4'-DDD		1	4.514
	Endosulfan sulfata			4.51U
	4, 4'-DDT		i	4.51U
	Mathoxychlor		Í	56 !
	Endrin ketone	•	1	4.510
	Endrin aldehyda	•		4.510
107-71-	alpha-Chlordane		•	12 ;
		?.r.	•	13
2001-35-2	Toxaphene			230 10
12474-11-2	Araclar-1016		!	45 IU
	Aroclor-1221		!	92 IU
	Aroclor-1232		į	45 IU
	Aroclor-1242		1	45 IU
· -· ·	Aroclor-1248	·	· !	45 LU
	Aroclor-1254		•	45 ÎU
	Araclar-1260		•	45 IU

AR000360

SED 9

CKW25

Concentration Concentratio	=15 No.: • 15: <u>730</u> 4	CKMSC
Color Colo		
Cisture: 22 decanted: (Y/N) N	****	60838
### Cantrated Extract Volume: ### 5000 (uL) Date Analy ection Volume: ### 2.00 (uL) Dilution F	• - •	
centrated Extract Volume: 5000 (uL) Date Analysection Volume: 2.00 (uL) Dilution F Cleanup: (Y/N) Y pH: 8.0 Sulfur Cle CAS NG. CCMPGUND (ug/L or ug/Kg) CAS NG. CCMPGUND (ug/L or ug/Kg) 1319-84-6	ved: 06/0	03/93
Cleanup: (Y/N) Y pH: 8.0 Sulfur Cle CAS NG. CCMPGUND (ug/L or ug/Kg) CAS	ected: <u>96/</u> 9	08/93
Cleanup: (Y/N) Y pH: 8.0 Sulfur Cle CAS NG. CCMPGUND (ug/L or ug/Kg) C19-84-6	/=sd: <u>07/0</u>	08/93
CAS NG. CCMPGUND (ug/L or ug/Kg) 3:9-84-6	Factor:	1.00
CAS NG. CSMPGUND (ug/L or ug/Kg) 1319-84-4	eanup: (Y/N	и) <u>И</u>
		٠ ۵
	2.4	111
319-86-2	2.4	
T8-89-9	2.41	
76-44-8	2.4	•
309-00-2		
1024-57-3Hestachlor escribe 759-78-8	2.48	
759-78-2Endosulfan	2.41	
60-37-1	2.41	
72-25-9	2.4	
72-20-E		
33213-65-9Endosulfan II 72-54-54,4'-DDD 1031-07-8Endosulfan sulfate 50-29-34,4'-DDT 72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-36-3	4.61	
72-54-54,4'-DDD	4.61	
50-29-34,4?-DDT	4.61	
50-29-34,4:-DDT	4.6	Ü
72-43-5		
53494-70-5Endrin ketone	4.6	IU .
7421-36-3		i U
5103-71	- 4,6	I U
5103-74-2 5amma-Chlordane	4.6	10
8001-35-2Toxaphene 12674-11-2Arcclor-1016	10	1
8001-35-2Toxaphene 12674-11-2Arcclor-1016	10 - 4	1
	240	បេ្
	46	IU .
	94	ייי טו
11141-16-5Aroclor-1232	46	: U
53469-21-9Aroclor-1242	. —	i U
12672-29-6Araclar-1248	46	
11097-69-1Aroclor-1254	· .	10
1 11096-82-5Arcclcr-1250	46 46	1 W

FORM I PEST

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1878

SED 10

- Lad Name: ENVIRGEVETEME

Contract: <u>#8010084</u>

Matrix: (sdil/water) <u>5511</u>

Lab Samole ID:

97040837

SDG No.: <u>CKW20</u>

Sample wt/vol:

% Moisture: <u>22</u>

<u> 30,0</u> (g/mL) <u>s</u>

COMPCUND

decented: (Y/N) <u>N</u>

Lab File ID:

Data Recaived: 06/03/93

Lad Code: <u>ENVSYS</u> Case No.: <u>20101</u> SAS No.:

Extraction: (SepF/Cont/Sono) <u>SGNC</u> Date Extracted: <u>06/08/97</u>

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/93

CAS NO.

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITE: - (ug/L or ug/Kg) US/KG

	جائنا والمراجعة المراجعة والمستقل والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة		
319-94-4	alcha-BHC	:	2.21U
317-95-7		;	2.210
319-94-9	المستهرين والمستقد التركيب والمستوال	 -	2.2:0 .
	gamma-EHC (Lindame)		2.210
			2.210
307-00-2			2.210
	Festachlor epoxide		2.210
	Endosulfan I		2.214
	Dialdrin		4,2:0
	4,4'-DDE		4,210
77-70-3		·	4.210
	Indosulfan II		\ 4.2!U
	4, 4'-DDD	<u> </u>	4.210
	Endosulfan sulfata		4.210
	4, 4'-DDT		4.210
	Methoxychlor	<u> </u>	22 10 1
	Endrin ketone .	<u>'</u>	4:210
	Endrin aldehyde	 -	4.210
	alpha-Chlordane		2.210
	gamma-Chlordane		2.214
	Toxaphene	 ;	220 IU . I
	Arocler-1016		42 IU I
	Aroclor-1221		86 IU I
-	Aroclor-1232		42 IU I
	Aroclar-1242		42 IU I
	Aroclar-1248	 i	42 IU I
			42 IU I

SPA SAMPLE NC.

SED II

Contract: 68010084

SAS No.: SDG No.: CKWZO

(sacil/water) <u>scit</u>

Wat Mane: ENVIROSYSTEMS

Lab Sample ID:

Sample wt/vol: (g/mL) <u>'6</u>

Lab File ID:

% Máisturs:

decanted: (Y/N) N

Date Received: <u>06/03/93</u>

Extraction: (SepF/Cont/Sonc)

SONO

Date Extracted: 06/08/97

Concentrated Extract Volume:

<u> 2000</u> (uL)

Date Analyzed: 07/08/93

Injection Volume: 2.00

(uL)

Dilution Factor:

1.00

GFC Claanuo:

(Y/N) Y

pH: 7.9 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KS</u>

		· • •	e .
	· · · · · · · · · · · · · · · · · · ·		
	aicha-BHC		2.310
こ17-55-7	seta-SHC	_}	2.310
319-96-9	celta-BHC	al al al annum	2.310
55-89-9	camma-PHC (Lindane)		2.310
	Hestachlor		2.310
707-00-2			2.310
=	Hegtachlor ecoxide	— ;	2.310
	Endosulfan I	— ;	2.310
40-57-1		 ;	4.410
_ ,	4.4'-DDE		4.4IU
72-20-8			4.410
	Endosulfan II		4.4!0
	4,4'-DDD	— ; ≥ × × × ×	4.410
	Endosulfan sulfate	- ;	4.410
	4.4'-9DT	·····	4.410
	Methoxychlor	- ;	23 10
	Endrin ketche		4.410
	Endrin aldehyde		4.410
	alpha-Chicrdane		2.91
	gamma-Chiordane		3.21P
	Taxaphene		30 10
	Aracler-1014		44 IU
	Arcclor-1221		89 IU
	Arocler-1232		44 10
	Araclar-1242	and the second second second	44
	Arcclor-1248	The state of the s	44 IU
	Aroclor-1254		44
			44 10
	Aroclor-1260	i	

AR000363

EPA SAMPLE NC.

SED 12

Lab Name: ENVIROSYSTEMS Contract: 68010084

wad Goda: <u>ENVEYE</u> EDG No.: <u>CKW20</u>

Lab Samole ID: 93060841 Matricks (soil/water) <u>2011</u>

<u>30.0</u> (g/mL) <u>G</u> Sample wt/vcl: Lab File IS:

% Moisturs: <u>19</u> decented: (Y/N) <u>N</u> Date Received: 06/03/93

Extraction: (SepF/Cont/Sonc) SONG Date Extracted: 06/08/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

pH: 7.7 Sulfur Claanup: (Y/N) N GPC Claanup: (Y/N) <u>Y</u>

CONCENTRATION UNITS: CAE NO. COMPOUND (ug/L or ug/Kg) <u>US/KS</u>

: 319-54-:----alcha-9HC 2.1:U 2.110 : 319-54-5-----delta-PHC 2.1:U : 58-69-9-----gamma-BHC (Lindane)_ 2.114 2.110 309-00-2------Aldrin_ 2.110 : 1024-57-J-----Peptachlor epoxida__ 2.114 2.110 4.110 72-55-9-----4,4'-005_ 72-20-8-----Endrin 4.1:U 33213-45-9-----Endosulfan II 4.11U : 72-54-9------4,4'-DDD_ 4.1!U : 1031-07-9-----Endosulfan sulfate 4.1:U : 50-29-3-----4,4'-DDT 4.130 ! 72-43-5-----Methexychlor__ 21 !U 4.11U 4.110 2.110 : 5103-74-23----2.1:U 210 10 __enedqsxoT---- IU 41 : 12674-11-2----Araclar-1016 :U : 11104-29-2----Araclar-1221 83 IU 41 ! 11141-16-5----Araclar-1232 41 IU : 53469-21-9----Araclar-1242 :U 41 : 12572-29-6----Araclar-1248 41 :U : 11097-69-1-----Aroclor-1254 : U 41

FORM I PEST

11095-82-5----Araclar-1250

SED 13

Contract: 68D10084

Lab Name: ENVIROSYSTEMS

r Code: <u>SNVSYS</u>

SAS No.:

EDG No.: <u>CKW20</u>

Matrix: (scil/water) Scil

Lab Sample ID: 93040842

Sample wt/vol:

<u> 30.0</u> (g/mL) <u>G</u>

Lab File II:

Noisture: 📆

dedanted: (Y/N) <u>N</u>

Date Received: 06/03/93

Extraction: (SepF/Cont/Sonc) SGNC

Date Extracted: 06/08/97

Concentrated Extract Volume: <u>5000</u> (uL) Date Analyzed: <u>07/08/93</u>

Injection Volume: 2.00 (uL)

GPC Cleanup: (Y/N) Y

pH: <u>7.2</u>

Sulfur Cleanup: (Y/N) N

Dilution Factor:

1.00

CAS NO.

CCMPCUND

CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>

	- · · · · · · · · · · · · · · · · · · ·	1		
7:7-54-4	:ha-BHC	a a se se i		.eiu :
717-85-7	ta-EHC			.6IU - !
319-24-8ca		<u> </u>	3	.410 !
33-69-9	nma-SHC (Lindane)		.3	.6IU :
75-44-9		refer to the	· 3	. £ ! U !
707-00-2		<u> </u>		.4!0 ::
1024-57-3	tachior epoxide	1	3	.510 !
. 957-93-3En:	desulfan I		. 3	.4:U :
60-57-1	midrin	.		.01U . I
72-55-9	-,-DDE	<u> </u>		.oru - i
72-20-8End	iria		7	.o:u:
-33213-45-9Eng	ccaulfan II	_		.01U !
72-54-84,	1,-000	\$	Jan. 1. 1. 1. 1. 1. 1. 7.	.01U 1
1031-07-8End	csulfan sulfate_	1	7. July 10 14 7.	.o:u ::
.50-29-3- : 4,		<u> </u>		.olu i
72-43-5Met	thoxychlor	1	:: · :: · · · · · · · · · · · · · · · ·	י טי:
-53494-70-5End		1	ार् <u>श्चार राज्यके</u> 7	.01U 🧠 1
7421-36-3End	rin aldehyde	1	44 14 14 14 14 14 14 14 14 14 14 14 14 1	.o:u :
5103-71-15;al;	ha-Chlordane	1	and the second s	.61U - 1
5103-74-2gan				.6;U :
8001-35-2-To		1	, * 340	- · :
12674-11 -2Ar c	clor-1016	<u> </u>		, lu
11104-28-2Arc	clor-1221	:		ו טו
11141-16-5Arc	clor-1232			10 1
:53469-21-9Arc	clar-1242	I	, ,	. : U
12672-29-6Arc	clor-1248			ar IU proj
11097-69-1Arc	clor-1254	<u> </u>	70	
11096-82-5Arc	clor-1260	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5 * 2.00 to 52. 70	- 1U - 1
3	<u> </u>	<u> </u>	ar e	<u> </u>

Lab Name: SNVIROSVSTEMS

Contract: <u>68010084</u>

Lat Dode: <u>ENVEYE</u>

EDG No.: CKW20

Matrix: (sdil/water) <u>9871</u>

Lab Sample ID: <u>93060843</u>

Sample wt/vol:

Lab File ID:

% Maisture: <u>19</u>

GPC Cleanup: (Y/N) Y

decanted: (Y/N) <u>N</u>

Date Received: 06/03/93

Extraction: (SesF/Cont/Sonc)

SCNC

Date Extracted: 06/08/93

Concentrated Extract Volume:

5000 (uL) Data Analyzad: 07/08/93

Injection Volume: 2.00 (uL)

pH: 7.8 Sulfur Cleanup: (Y/N) N

Dilution Factor: 10.0

CONCENTRATION UNITE:

CAS NO.	TOMPOUND	(ug/L or a	ig/Kg) <u>'JS/KS</u>	Ğ
710-34-4	alcha-SHC		21	: : u
	bata-SHC			נט טו
,,, { @_@	dalta-3HC		21	: "
	canna-SHC (Lin			: 0
76-44-0	Heptachlor	Gaus,	_i 21	ü
**************************************	Aidrin			Ü
)()	Weptachlor apo		-: 21 21	10
950-00-0	Endosulfan I <u> </u>	X169	-: 21 21	10
			- i 40	_
/^_##	Dialdrin			_
22- 	4,4'-DDE			· -
	Endrin		_: 40	
	Endosulfan [I]_		_! \ 40	_
	4,4'-DDD		_! 40	
051-07-8	Endosulfan sul	fate	_! 40	. –
0-2943	4, 4'-DDT		40	
Z-43-5	Methoxychlor	<u> </u>	_1 210	
3494=70-5	Endrin ketone_		_1 40	
421-26-35	Endrin aldehyd	<u> </u>	1 40	ıu
103-71-9	alpha-Chlordan	•	_! 39	1
102-14-55			_1 24	
001-3 5-2	Toxaphena		_; 2100	
	Aroclar-1016		_1 400	
	Araclor-1221 <u></u>		_i 820	
1141-16-5	Aroclor-1232		<u>_</u> 1 400	
	Aroclor-1242		_i 400	IU
2672-29-6	Aroclor-1248			10
	Aroclor-1254		_1 400	". IU
	Aroclor-1250		400	10

Soil 2

CKW32.

erij - SDG No.: <u>Ckw20</u> -Case No.: Cotot EAS No.:

Matric: (Geoil/Water) ECIL Las Samels ID: 93060844

70<u>.0</u> (g/mL) <u>6</u> Eamole wt/vol: Lab File ID:

cacanted: (Y/N) N % Moisturs: <u>12</u> Data Recaived: 06/03/93

Date Extracted: 06/08/93 Extraction: (SepF/Cont/Sonc) · SONC

<u>5000</u> (uL) Concentrated Extract Volume: Date Analyzed: 07/08/93

Injection Volume: 2,00 (uL) Dilution Factor: 10.0

pH: <u>8.0</u> Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

CONCENTRATION UNITS: COMEDIAND - 30 CAS NO. (uc/L or uc/Kc) US/KG

: 019-84-4-----alsha-8HC_ 19 iU. : 519-85-7-----sta-SHC_ 19 -- ! LL : 319-84-9-----calta-BHC 19 111 1 38-39-9-----camma-3HC (Lindane)_ 19 .: U : 309-00-2----Aldrin_ 19 ! !! : 1024-57-3-----Hestachlor esoxide_ 19 IU 19 : 959-98-9----Endosulfan I 37 : I U 72-55-9-----4,4'-DDE_ 37 :U 72-20-8------Endrin___ 37 111 C213-65-9-----Endosulfan II_ 37 IU 72-54-8------------4.4'-DDD 37 H 37 111 1 1031-07-8-----Endosulfan sulfate 37 111 190 72-43-5-----Methoxychlor 111 37 53494-70-5-----Endrin ketone_ III 7421-36-3g----Endrin aldehyde_ 5103-71-19 1JP ---alpha-Chlordane_ 3103-74**-2** -camma-Chiordane_ 18 1900 ---Toxaphene_ 370 IÚ 12674-11-2----Araclar-1016 760 | 11104-28-2----Araclar-1221 370 10 : 11141-16-5----Arcclor-1232 370 10 : 53469-21-9----Araclar-1242 370 : 12672-29-6-----Araclar-1248_ 370 : 11097-69-1----Aroclor-1254 370 11094-82-5-----Araclar-1240

FORM I PEST

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	-		·_ ~	

Lab Coda: <u>ENVSYS</u> _{of}Casa No.: <u>20101</u> - SAS No.:

Soil 3

Lab Name: <u>SNVIROSYSTEMS</u>

- Contract: <u>68010084</u>

SDG No.: C<u>kwco</u>

Matrick: (scil/water) <u>9871</u>

Lab Sample ID: 97040845

Sample wt/vol:

<u> 70.0 (g/mL) 6</u> Lab File ID:

% Moisture: 13 decanted: (Y/N) N

Date Received: 06/03/93

Extraction: (SasF/Cont/Sond)

<u>egnc</u> Date Extracted: 05/08/93

Concentrated Extract Volume:

Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

Dilution Factor:

1.00

GPC Cleanup:

(Y/N) Y

- gH: <u>7.5</u> j

Sulfur Clasnuo: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>US/KS</u>

•		• • • • • • • • • • • • • • • • • • • •
317-64-4	sicha-BHC	_; 2.1;4 ;
3:9-85-7		_: 2.1:4 :
319-96-8	dalta-SHC	
53-39-9	camma-3HC (Lindans)	2.110
	Heptachlor	2.110
	4idrin	2.110
1024-57-3	Heptachlor epoxide	1 2.110
957-78-5	Endosulfan I	[: 2.1!U
	Dialdrin	1 4.010
	1,47-005	[f 32 f
		1 4.01U 1
75213-45-9	Endosulfan II	4.014
72-54-8	4, 4* -DDD	1 (4.010 1
1031-07-3	Endosulfan sulfate	[1 4.01U 1
50-29-3	4, 4' -DDT	_t 13 IP I
	Methaxychlar	
	Endrin ketone	_1 4.01U 1
7421-36-3	Endrin aldehyde	4.010
5103-71-9	alpha-Chlordana	_1 7.31P 1
5103-74-	gamma-Chicrdana	
	Toxaphene	_i .** 210 IU I
12574-11-2	Arocicr-1016	_i 40 iU i
11104-28-2	Araclar-1221	<u> </u>
11141-16-5	Araclar-1232	_
53469-21-9	Aroclor-1242	_ 40 U
12672-29-5	Aroclor-1248	[1] 40 U - 1
11097-69-1	Araclor-1254	_1 40 IU I
11094-82-5	Araclar-1240	_t
	and the second s	•

FCPM / I REST

EF4 ŚRMPLE °C.

50i'L 4

Lab Sample ID:

(ug/L or ug/Kc) US/KG

Lab Name: ENVIFCEYSTEMS Contract: 65010084

20060846

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Matrice (stail/wa**ter)** <u>9031</u> . .

DAS NO.

358 No.: <u>CKWZO</u>

Sample wt/ypl: <u>TO.O</u>S &g/mL) <u>G</u> S S S Lab File ID:

COMPOUND

Extraction: (SepF/Cont/Scho) <u>SCNC Data Extracted: 06/08/93</u>

The state of the s

Concentrated Extract Volume: 0 <u>5000</u> (uL) Date Analyzed: 007/08/93

Injection Volume: 2.00 \odot (uL): 3.00

GFC Cleanup: . (Y/N) Y ... PhilipH: 7.7 ... Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

11104-28-2----Arcclor-1221 74 IU 11141-16-5-----Arcclor-1232 36 IU

11097-69-1-----Aroclor-1254 11096-82-5-----Aroclor-1260

FORM I PEST

SOIL 5

. - - Contract: <u>48010084</u>

Lac Name: ENVIROSYSTEMS

Case No.: Coto: SAS No.: SAS No.: CKW20

Matrice - scil/water) 5000

Lad Idda: <u>EMVSYS</u>

Lab Sample ID: 97060847

Sample wt/vol:

70.0 (g/mL) 3

% Moisture: <u>Q1</u>

decented: (Y/N) N

Date Received:

06/03/93

Extraction: (SepF/Cont/Sonc)

BONC

Data Extracted: 06/08/93

Concentrated Extract Volume:

<u> 5000</u> (4<u>4</u>)

Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

7.2 Sulfur Cleanup: (Y/N) N

1.00

GFC Cleanud: (Y/N) Y

pH:

Dilution Factor:

CONCENTRATION UNITE:

CAS NO.

lug/L om ug/Kg) <u>US/KS</u>

5:9-34-4	alpha-BHC	!	2.2:0
::?-=5-7	:eta-3HC		2.219
519-94-9	ceita-SHC		2.210
:2-59-9	zamma-SHC (Lindane)	 ,	2.210
'&-44-8	Heptachlor	 ;	2,210
:09-00-Z	Aldrin		2.210
024-57-3	Feptachlor apoxide		2.210
57-75-5	Indogulfan I		2.210
0-37-1	Bieldrin	 }	4.210
'ユーゴミーテーニー	1,4'-005		4.210
2-20-8	Endrin		4.21U
3213-65-9	Endosulfan II		4.210
2-54-6	4,4'-DDD		4.210
031-07-9	Endosulfan sulfata		4.2!U
0-29-3	4, 4'-DDT		4.214
2-43-5	Methoxychlor	 i	22 IU
3494-70-5			4.2IU
421-36-3 22	Endrin aldehyde .	 i	4.214
103-71-	alpha-Chlordane	- -	2.2:0
103-74-	damma-Chlordane	_	2.2:0
001-35-235	Toxaphene		220 IU
2574-11-2	Arocler-1015		42 IU
1104-29-2	Araclar-1221	_	85 IU
1141-16-5	Aroclor-1232	 i	42 IU
	Arcclor-1242	;	42 IU
	Araclar-1248	 ;	42 IU
,	Aroclor-1254	 :	42 IU
		 :	42 IU

FORM I FEST

Lab Name: <u>ENVIROSYSTE</u>MS Contract: 68010084

SEE OFF: CKMCO Colass No.: Colo: BAS No.:

Matmida ((adil/water) <u>2011</u> Lab Sample ID: 077040841

<u>20.0</u> (g/mL) <u>6</u> Sample wt/vol: Lab Fila ID:

% Moisture: <u>24</u> decented: (Y/N) N Date Received: <u>06/04/95</u>

Extraction: (SecF/Cont/Sonc) <u>SCNC</u> Date Extracted: <u>04/09/95</u>

Concentrated Extract Volume: 5000 (GL) Date Analyzed: 07/08/97

Injection Volume: 50.00 (uL) Dilution Factor: 1.00

GFC Cleanup: (Y/N) Y PH: 6.5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITE: CAS NO. CCMPCUNE

(uc/L or uc/Kc) <u>15/85</u>

•	_ !	}	
319-54-4alsha-BHC			2.210
::::-:::::::::::::::::::::::::::::::			2.210
319-36-6			2.210 1
ES-99-9gamma-BHC (Lindane)	0 = 1 ×	Profession Control	2.210
76-44-6Hestachler		Programme 1	2.210
309-00-2	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.210 1
1024-57-3Heotachlor epoxide		province the second se	2.2]U
czo-da-gzadosulfan I			2.210
40-57-1Sieldrin			4.3IU I
72-55-9		file Asserts file	9.31P
72-20-8Endrin		a sec	4.310
33213-65-9Endosulfan II	1		4.310
72-54-64,4'-DDD	{	i see 10	4.310
-1031-07-9Endosulfan sulfate_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
50-29-34,4'-DDT			4.310
72-43-5Methoxychlor			22 [[U]] [
53474-70-5Endrin ketone	. • * * * * * * * * * * * * * * * * * *		4.3IU ()
7421-36-3;Endrin aldehyde			4.3IU
5103-71		n	
5103-74-2gamma-Chlordane		· · · · · · · · · · · · · · · · · · ·	5.81P
8001-35-295Toxaphene		 -	20 10
12674-11-2Araclar-1016			13 10 1
11104-28-2Arocler-1221		· -	
11141-16-5Araclar-1232		:	13 IU
53469-21-9Araclar-1242			13 IU
12572-29-6Arcclor-1248			13 10 1 13 10 1
11097-69-1Araclar-1254			
11096-82-5Aroclor-1260		-	73" IP
Market Control of the Market Control of the Market Control of the Control of the Artist Control of the Control		in the same of the same of the same of the same of the same of the same of the same of the same of the same of	<u>راک می در ایسی</u>

FORM I FEST

AR000371

3 E E

Injection Volume: 2.00 (uL)

PERTICIOS CREANICS (AMALYS)	
Lad Name: <u>Envidosvetems</u>	Soil 9 CKW39 Contract: 68010094 SOIL-9
Lab Soca: <u>ENVSYS</u> Casa No.: <u>Color</u>	SAS No.: SIG No.: CKWIO
Matric: (spil/water) <u>9011</u>	Lab Sample ID: 93040842
Sample wt/vol: 50.0 (g/mL) g	Lab File ID:
% Moisture: 16 decented: (Y/N)	N Data Recaived: 06/04/93
Extraction: (SepF/Cont/Sone) <u>90</u>	NC Date Extracted: <u>06/09/97</u>
Concentrated Extract Volume: 500	<u>O</u> (uL) Data Analyzad: <u>07/09/93</u>

Dilution Factor:

CONCENTRATION UNITS:

1.00

(Y/N) Y Sulfur Cleanup: (Y/N) N GFC Clasnup: pH:

CAS NO.	CCMPQUND (ug/L or	nd\Kd) (<u>97509</u>	໘
7:9-61-4	alaha-BHC	!	2.0	ייי
		 :	2.0	
	dalta-BHC_	—-i		o i U
	:amma-2HC (Lindane)			יונ
75-44-8	Heptachlor	 ;	-	טוט
509-00-2				iu
	Hestachlor esoxide		2.0	
	Indosulfan I	 ;	2.0	
	Sieldrin	7		714
	1, 4*-00E	 :		710
72-20-8			3.9	
5212-65-9	Endosulfan II		,	713
	4, 4'-DDD	 i	, 3.9	
	Endosulfan sulfate		•	71U
	4,4'-DDT		15	;P
72-43-5	Methoxychlor		20	
3494-70-5	Endrin ketone	 :	3.9	
* 474 - TL - T			3.9	710
1103-71-0	alpha-Chlordana		57	IP .
103-74-	gamma-Chlordane		55	1
001-35-25-	Toxaphene		200	
2574-11-2-	Araclar-1016		39	"IU
	Aroclor-1221		30	10
	Aroclor-1232	— ;	37	lu 🗀
	Aroclar-1242		37	IU
	Aroclor-1248		39.	ំរប
	Aroclor-1254		39	10
			3a	

SOIL 10

Contract: 68010084

FINANCE CONTRACTOR OF THE MOUNT

Matheum : () 유达있다 (Waterin) <u>경향당임</u>

Lao Samola II.

- The (g/mL) S Lab File II:

tecanted: (Y/N) N.

Date Received: 06/04/93

Extraction: (SepF/Cont/Sone) | Senc

Data Extracted: 06/09/93

Gondandrated Extract Volume: <u>5000</u> (<u>ul</u>)

Data Analyted: 07/08/93

Injection Volume: 2.00 (uL)

GPC Cleanup: (Y/N) Y PH: 4.0% (Sulfur Cleanup: (Y/N) N

Dilution Factor: 1.00

CONCENTRATION UNITS:

INE "C.

COMPOUND

(uc/L or ug/Kg: <u>13/Ks</u> - 🍪 👊 🤅

7:3-34-5	2.014
-717-65-7	2.01U
7:4-34-3	2.010
folgene	2.010
74-44-5Heptachlor	2.010
709-00-2414:11	2.010
1014-57-THeotachlor epoxide	2.010
47%-46-2	ร.จเบี เ
·-: -37-1ieicrin!	5.9(0)
72-55-54,4'-005	3,9IU
72-20-2	3.910
732:3-65-9Encosulfan II	5.7ÎU
72-54-94, 4'-DDD_	3.910
1031-07-8Endosulfan sulfats	3.91U (-) d
50-29-3	3.9IU
72-43-5Methoxychlor	120-14
57474-70-5Endrin ketone	3.91U 6 2 1
7421-36-33 Endrin aldehyde	້ ສີ.ຈາບ ຳ
5:00-71-6 alpha-Chlordane	2.010
1103-74-9 gamma-Chlordane	2.010
3001-35-23Toxaphene	200 IU I
12574-11-2Araclar-1015	39 10 1
:::04-28-2Aracler-122:	79 10 1
11141-14-5Araclar-1232	39 IU I
53469-21-9Aroclor-1242	39 310 37 11
12572-29-6Arocler-1248	39 YU 1
1:077-69-1+Araclar-1254	~~~~~~~~~ 37 ~ 1U
	39 10 1
:::096-82-5	37 10

PERTUGIES CREMITS AMALYSIS DATA SHEET

Contract: <u>\$8010084</u>

Lab Name: ENVIROSYSTEMS

Lat Toda: ENMEYS | Case No.: Cotol | SAS No.:

BDG No.: CKWCO

Matric: (sqil/water) <u>9001</u>

Lab Sample ID:

Sample wi/vol:

TO.O (g/mL) G Lab File ID:

% Moisturs: <u>19</u>

dacentad: (Y/N) <u>N</u>

Date Received: 06/04/93

Extraction: (SepF/Cent/Senc)

Data Extracted: <u>06/14/93</u>

<u> SCNC</u>

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/95

Injection Values: 2.00 (uL)

Dilution Factor:

10.0

GPC Cleanups (Y/N) Y

рН: <u>6.9</u>

Sulfur Claanuo: (Y/N) N

		CONCENTRATION UNITS:				
JAS NO.	COMPCUND	(ug/L	or ug/Kg)	<u>us/kg</u>	7 9	ì
			1		i	_
	aisha-SHC		!	21	: U	
	bata-BHC <u>/</u>			21	· IU	,
	deita-3HC		······································	21	TU	
	gamma-BHC (Lindan	a}	1	21	:U	
	Heptachlor		1	'21	; U	
509-00-2	Aldrin			21	ĮŪ	
:024-57-3			 	21	IU	
59-93-3			<u> </u>	21	ľU	
50-57-1	Eisldrin		<u> </u>	41	:ប	
	4, ÷' -DCE			41	IU	
72-20-8	Endrin		<u> </u>	41	: U	
	Endosulfan II		{	41	: ט	
72-54-8	4, 4' -DDD	•		41	10	
.031-07-9	Endosulfan gulfat:	3	l l	41	10	
0-29 <u>-</u> 3			<u> </u>	41	10	
2-43-5	Methoxychlor		<u> </u>	210	ľ	
	Endrin ketone	•	1	41.	ាប	
421-36-2	Endrin aldehyde	,	· · · · · · · · · · · · · · · · · · ·	41	10	
103-71	alpha-Chlordane	"-	1 1	53	:2	
	gamma-Chlordane		بر ا <u>ــــ</u> ا	. 21	I P	
001-35-2	Toxaphene		;	2100	! U	
2574-11-2	Araclar-1016	>	<u>, * </u>	410	10	
	Aroclor-1221		<u> </u>	830		٠
1141-15-5	· · · · · · · · · · · · · · · · · · ·			410	: U	
3449-21-9	Aroclor-1242		<u>, , , , , , , , , , , , , , , , , , , </u>	410	10	**
=	Arosier-1248	•	1	410	: IU	
	Aroclor-1254			410	10	
	Arcelor-1240	-	 !	750	11220	٠.
-		"	······································			

501L 13

Contract: <u>#2010084</u>

Case No.: <u>20101</u> EAS No.: EDG No.: CKWOO

Matrix: - scil/water) Gril

Lab Sample ID: 97040649

Sample wt/vol:

<u>70.0</u> (g/mL) <u>6</u>

Lac File ID:

% Moisture: 15

icacanted: (Y/N) <u>N</u>

Date Received:

Extractions (SecF/Cont/Sonc)

SONC

Date Extracted: 06/08/93

.Concentrated Extract Volume:

<u>≣600</u> (uL)

Date Analysed:

Dilution Factor:

07/08/93

Injection Volume: 2.00 (uL)

Sulfur Cleanup: (Y/N) N

1.00

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) <u>UG/KG</u>

•		The second of	
7:9-24-4	alpha-9HC	_1	2.010
	5eta-5HC	_1	2.010
3:9-55-5	delta-SHC	<u>_</u> :	2.010
<u> </u>	gamma-SHC (Lindame)] :	2.0!U i
7:-43-2	Heptachlor	71	2.010
709-00-2			2.010
1024+57-3	Hestachlor epoxide		2.010
	Endosulfan :	7	2.010 1
60-57-1	Dieldrin		3.910 1
72-55-5	:.4'-DDE	- 1	3.910
72-20-3	Endrin		3.910
33213-45-9	Endosulfan II		3.910
72-54-8	4.4°-DDD		\ 3.9:U :
a a	Endosulfan sulfate		3.910
50-29-3-4	4, 4'-DDT		
	Methoxychlor		-20 IU I
	Endrin ketone	er for the grant	- 3.9IU
7421-34-3	Endrin aldehyde		- 3.9!U !
	alpha-Chlordane		2.81
	camma-Chlordane		1.5 JP
8001-35-28	Toxaphene		200 IU I
	Aroclor-1016		39 IU I
11104-28-2	Aroclor-1221		80 IU 8
11141-14-5	Aroclor-1232		39 IU I
53469-21-9	Aroclor-1242	1.4	39 JU 1
	Araclar-1248		39 IU I
	Aroclor-1254	The second second	39 IU I
, _	Araclar-1260	1	23 IJ I
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
		• · 	

AR000375

Contract: <u>68010064</u>

SAS No.:

Lac Name: ENVIRCEYSTEMS

SDG No.: CKW36

Matrix: (scil/water) SCIL

Lab Samole ID:

93060874

Lac Code: ENVEYS

<u> 70.0</u> (g/mL) <u>G</u>

Casa No.: <u>2010:</u>

Lab File ID:

% Moisturs: 40

Sample wt/vol:

cacintad: (Y/N) N

Date Received: 06/04/93

Extraction: (SeoF/Cont/Sonc)

SCNC

Date Extracted: 06/14/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: <u>7.4</u>

Sulfur Cleanup: (Y/N) N

	CAS NO.	CCMPOUND	CONCENTRA (ug/L ar			•	a
:	716-24	sicha-BHC		1	28	1	
•		sata-2HC		 ;	23	10	
•		delta-BHC		 ;	23	iu	:
•		camma-BHC (Line	1-0-1		. 23	10	:
;	74-34-9		1809/	 :	29		
,	709-00-2						
;	1074-00- <u>1</u>	Hestachlor epo		:	28 29	10	1
	1074-3,-3	Sedemiles to	(128				i
i	757 -78-8	Endosulfan I		 :	23	٤U	i
i	20-21-5	Dialdrin	· · · · · · · · · · · · · · · · · · ·	 -	55	្រុ	
i	,2-33-7	1, 4'-DDE	4	 :	55	!U	•
i	72-20-8	Endrin	. A/	 !	55	יוו	
•	33213-65-9	Endosulfan II_	The second second		55	ľU	į
•		4, 4' -000			55	; U	
i	1031-07-8	Endosulfan sulf	ata	— '	` 55	IU	1
:	50-29-3	4,4'-DDT			55	יוו	
1		Methoxychlor		:	230	! U	ŧ
i		Endrin ketone_				IU	1
i,	7421-36-3	Endrin aldehyde		!	55	10	•
1	5103-71-9 mg	alpha-Chlordane		1	28 .	! U	:
1	5103-74-1	gamma-Chlordane		t	28	ıu	1
:	8001-35-25	alpha-Chlordane camma-Chlordane Toxaphene			2800	יו	1
!	12574-11-2	Araclar-1016	1 - N -		550	: U	1
ŧ	11104-28-2	Aroclor-1221		<u></u>	1100	ŧυ	. 1
:	11141-16-5	Aroclor-1232			550	10	- 1
1	53469-21-9	Aroclor-1242	***	<u> </u>	550	!U	1
1	12572-29-6	Arcelor-1248			550	:U ·	1
ŀ	· -	Aroclor-1254		,	550	IU	1
1		Aroclor-1250			550	. 1 U	1
:						<u></u> }	

N. s	ne: <u>ENVIS</u>	coveteme		mer	SED 2 18010084	CKW19
		r mrg	er en grand de la companya de la com		<u> </u>	
T =	ಡಕ್ಕ <u>ಪುಗ್ರತ್ಗ</u>	<u>S</u> Casa Mo.: <u>20</u>	<u>101</u> §	AE No.:	EDG	No.: CKWT.
;	: (scil/w	ater) <u>Scri</u>	•	L	.ab Samole ID:	93060575
cla	wt/vol:	<u>∵o.o</u> (g/m	나) 년	Ĺ	ab File ID:	
oi s	ture: <u>45</u>	decanted:	(A\N) <u>N</u>	E	ate Received:	06/04/93
raci	tion: (SepF/Cont/Sonc)	SONC		ate Extracted:	06/14/93
cen'	trated Ex	tract Volume:	<u> 5000</u>	(uL) E	ate Analyzed:	07/08/93
ecti	ian Volum	e: <u>2.00</u> (uL)	• .	5	ilution Factor	10.0
Cla	sanup:	(Y/N) <u>Y</u> pi	1: <u>7.2</u>		iulfur Cleanup:	(Y/N) <u>N</u>
	CAS NO.	CCMPOUND			ration units: or ug/Kg) <u>UG/K</u> G	i G
; ~						
- 1	319-84-4	alsha-BHC			1	31 ; U.
•	319-65-7-	cata-3HC_			Marie Carlos Car	31 IU
;	319-84-5	celta-EHC				31 IT
;	23-55-5	gamma-BHC	(Lindan	e)	<u> </u>	31 IU
ţ	76-44-8	Heptachlor	•			31 IU
i	309-00-2-					31 IU
, i	1024-57-3	Heotachlor	· epoxid	e	· ·	31 IU
' :	759-98-8-	Endosulfar	: I	www.complex.com	<u> </u>	31 IU
ì	60-57-1	Bieldrin_		* # ·	<u> </u>	61 IU
:	72-55-9					61 IU
;	72-20-9	Endrin				61 IU
;	33213-65-	9Endosulfar	II		A Comment of the Comm	61 IU
	72-54-8					61 IU
		Endosulfar	sulfate			61 "IU"
		4,4'-DDT_		r ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	61 IU
		Methoxychl	or		•	10 14
		-5Endrin ket				61 IU
		Endrin alc		•	Same to the Contract of the Co	61" IU
	5103-71-9					31 " (U "
	5103-74-9			and the second		31 TU
	8001-35-			Section 1	31	00 IU
	12674-11		16			10 IU
	11104-28-					00 10
		5Araclar-12				10 10
		9Araclar-12	-		 `	10 10
		6Aroclor-12		1 1 1	·	10 10
		1Araclar-12			·	10 10
1						/=
	·	5Araclar-12		programme to		10 IU

FORM I PEST

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1426

SED 8

Lab Name: ENVIROSYSTEMS Contract: 68010084 CKW25. SPD - 8

1.00

a

Case No.: 20101 SAS No.: SDG No.: <u>CKW36</u>

Matrix: (soil/water) SOIL

Lab Cada: ENVEYS

Lab Sample ID: 93040874

Sample wt/vol: 50.0 (g/mL) 6 Lab.Fila ID:

% Moisture: <u>11</u> decanted: (Y/N) N

Date Received: 04/04/93

(SepF/Cant/Sanc) Extraction: SONC

Date Extracted: 06/09/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

Dilution Factor:

GPC Cleanup: Sulfur Cleanup: (Y/N) N (Y/N) YpH:

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/KG

319-84-6-----alpha-BHC_ 1.9ľU 1.9IU : 319-36-8------celta-BHC 1.914 58-89-9----gamma-BHC (Lindane)_ 1.910 74-44-9----Heptachlor___ 1.9IU : 309-00-2-----Aldrin_ 1.9IU : 1024-57-3-----Heptachlor epoxide__ 1.910 959-98-3-----Endosulfan I_ 1.910 60-57-1------Dialdrin_ 3.710 72-55-9-----4.4'-DDE 3.710 72-20-8-----Endrin_ 3.710 : JJ213-65-9----Endosulfan II 3.714 72-54-8---4, 4' -DDD_ 3.710 -Endosulfan sulfate 1031-07-8--3.714 3.710 1 72-43-5-------Methoxychlor_ 19 IU : 53494-70-5--3.714 ---Endrin ketone_ : 7421-36-37-----Endrin aldehyde 3.7IU 1 5103-71---alpha-Chlordane_ 1.9IU ∹gamma-Chlordane 1.910 8001-35 190 1U -Toxaphene 37 IU 12674-11-2--Aroclor-1016_ 75 ıU -Aroclor-1221 11104-29-2--Araclor-1232_ 37 · IU 11141-16-5-**37**. 53469-21-9-----Araclar-1242 · --Araclar-1248_ 37 IJ 1 12672-29-6----- 10 37 11097-49-1-----Araclar-1254 ıu 11095-82-5----Araclar-1260

FORM I PEST

Lab Name: (ENVIRGEVE		Contract: <u>690</u>	5016 10084	CKWGA	% SOIL-
Lab Code: ENVEYS	Case No.: 20101	SAS No.:	906	No.: CKV	7 18
rin (soil/water)	<u> Port.</u>	Lab	Sample ID:	9306084	<u>48</u>
Sample wt/vol:	<u>50.0</u> (g/mL) <u>S</u>	Lab	File ID:		
% Moisturs: 10	decanted: (Y/N)	N Date	Recaived:	06/03/9	23 - 10
Extraction: (SepF/	Cant/Sone) <u>SC</u>	ONC Date	Extracted	06/08/5	<u>73</u>
Concentrated Extract	: Volume: <u>500</u>	00 (uL) Date	Analyzed:	07/07/5	<u>93</u>
Injection Volume: 2	1.00 (uL)	Dilu	tion Factor	3.0	<u> 70</u>
GPC Cleanup: (Y/N)	Y pH: 2	7.5 Sulf	ur Cleanup:	(N/N)	ž .
CAS NO.	COMPOUND	CONCENTRAT: (ug/L or ug	ION UNITS: g/Kg) <u>UG/K</u> G	ž .	a .
319-96-8 58-69-9 76-44-8 309-90-2 1024-57-3 55-98-8 72-55-9 72-55-9 72-54-8 1031-07-8 50-29-3 72-43-5 7421-36-3 5103-71-9 5103-74-28-2 11104-28-2 11141-16-5	beta-8HCdelta-8HCgamma-EHC (LinHestachlorAldrinHeptachlor ecoEndosulfan IDieldrin4,4'-DDEEndosulfan II	fate		1.9 U 1.9 U 1.9 U 1.9 U 1.9 U 1.9 U 1.9 U 3.7 U 3.7 U 3.7 U 3.7 U 3.7 U 1.9 U	

FORM I PEST

PASH

5012 T

CKW37

Lab Name: <u>ENVIROSYSTEMS</u>

Contract: 68010084

Lab Code: <u>SNVSYS</u> Case No.: <u>CO101</u> EAS No.:

SDG No.: CKWJA

Matrix: (soil/water) <u>Soil</u>

Lao Sample ID:

93040877

Samola wt/vol:

<u>70.0</u> (g/mL) <u>G</u>

Lab File ID:

% Moisture: <u>18</u>

decented: (Y/N) N

Date Received:

04/04/93

Extraction: (SepF/Cont/Sonc) <u>SQNC</u>

Date Extracted: <u>06/09/93</u>

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: <u>7.5</u>

Sulfur Claanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L	or ug	/Kg) (<u>ig/kg</u>	•	Q
			:	Į.		1	·
	alpha-BHC	· · · · · · · · · · · · · · · · · · ·		1		. 1 ! U	
719-65-7				ŀ	_	. : !U	
	daita-BHC		· · ·	,		. 1 1 U	٠.
	gamma-3HC (Li		· · · · · · · · · · · · · · · · · · ·	.		. 1 U	
7 6-44-8	Haptachlor					110	
309-00-2	Aldrin	* .		1	2.	. 1 U	:
1024-57-3	Heptachlor ep	roxide	·	1	2.	. i i u	
959-98-8	Endosulfan I_	***		t	2.	. 1 ! U	
60-57-1	Dialdrin			1	53	12	
72-55-9	4, 4' -DDE			1	16	: 7	
	Endrin			1	4.	UIO.	
	Endosulfan II			!	4.	UIO.	
72-54-8	4, 4' -000	ART FOR		1	•	71P	
	Endosulfan su			•		Uto	i
	4, 4' -DDT			t t		OIU	
	Methoxychlor_			•		Ü	
	Endrin ketone			• "		OIU.	
	Endrin aldehy			t 1	• '	OIU	
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7103-71- 7 7-	alpha-Chlorda			4 . •		1:0	
	gamma-Chlorda			•		U	
3001-35-35-	Toxaphene					נט	
_	Arcelor-1016_			ì		: U	
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	Aroclor-1248_	Mark Control		T	'40	Ü	'. ·
l 1097-69-1	Aroclor-1254_		r	!•	. 40	III	
1094-32-5	Aroclor-1260			1	40	ូរប	

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- - 45	i i unaficula finelia	3 28 4 3852		
			501L 12	CKW42
Lao Name: <u>ENVIROSYS</u>	TEME	Contract: <u>690</u>	<u>10084</u>	2,
Lat Code: <u>EMVSYS</u>	Case No.: 20101	SAS No.:	ECG	No.: <u>CKW36</u>
Time (soil/water)	<u> </u>	Lac	Bample ID:	<u>77060865</u>
Sample wt/vol:	<u>30.0</u> (g/mL) <u>§</u>	Lab	File ID:	
% Moisture: <u>16</u>	decanted: (Y/N)	N Date	Received:	06/04/93
Extraction: (SepF/	(Cont/Senc) <u>30</u>	NC Date	Extracted:	06/14/93
Concentrated Extract	Valume: - 500	O (uL) Date	Analyzed:	07/07/93
Injection Volume: 2	(uL)	Dilu	tion Factor	10.0
GFC Cleanup: (Y/N)	<u>У</u> рН: <u>Z</u>	<u>.3</u> Sulf	ur Cleanup:	(Y/N) <u>N</u>
CAS NC.	COMPOUND	CONCENTRAT (ug/L or u		a
319-95-7 38-69-9 76-44-6 309-00-2 1024-57-3 959-98-8 72-55-9 72-55-9 72-20-8 33213-65-9 1031-07-8 50-29-3 72-43-5 7421-36-3 5103-71-9 5103-74-11-6-5 11104-28-2 11141-16-5		iane)	20383333	20

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Soil 14

Contract: <u>68010094</u>

Lab Code: <u>ENVSYS</u> | Case No.: <u>20101</u> | SAS No.: EDG No.: CKW36

Matrice (scall/water) <u>SCCL</u>.

<u> 30.0</u> (g/mL) <u>S</u>

Lab Sample ID: 91040866

Lad Name: <u>EMVIECEVETEME</u>

Lab File IÇ:

% Moisture: 37 decanted: (Y/N) N Data Received: 06/04/93

Extraction: (SecF/Cost/Sono) <u>SONO</u> Data Extracted: <u>06/14/93</u>

Concentrated Extract Volume: 1 5000 (uL) Date Analyzed: 07/08/93

CKM90

Injection Volume: 2.00 (uL)

Dilution Factor: 10.0

GFC Cleanup: (Y/N) Y pH: 6.9

Sample wt/vol:

Sulfur Cleanup: (Y/N) N

•			RATION U		
CAS NO.	CCMPCUND	(ug/L o	r ug/Kg)	<u>UG/KG</u>	Q
713.07	-1-1- SUB	•			
	aicha-9HC		 }	25	i U
319-35-7	::::a-3HC			28	IU
J17-56-3	salta-SHC			29	IU.
28-84-6	gamma-BHC (Lind			29	In.
76-44-8	Heptachlor		t	23	· U
309-00-2	41drin				· IU
1024-57-3		ide	!	23	IU
757-78-9	Endosulfan I			23	IU.
60-57-1	Disicrin	<u> </u>		54	-
72-55-9			}}	54	
72-20-3	Endrin		ŧ	54	10
33213-45-9	Endosulfan II		:	54	ıu
72-54-3	4,4'-DDD		1	54	ıu
1031-07-8		ate .	1	. 54	I U
50-29-3	4, 4'-DDT		<u> </u>	` 54	: 🖰
72-43:5	Methoxychlor	•	<u> </u>	290	: U
53494-70-5	Endrin ketone		:	54	:U
7421-34-3	Endrin aldehyde			54	IU
5103-71 [*] -9	alpha-Chiordane	•		29 .	: U
2103-74-2	camma-Chlordane			29	IU .
8001-35-	gamma-Chlordane			2300	10
12674-11	Arcelor-1016	?# ·		- 540	. –
11104-28-2	Aroclor-1221		 ; -	1100	IÜ
11141-14-5	Aroclor-1232		 ;	540	IU .
	Argelor-1242		 ;	540	i U
	Aroclor-1248		;	540	Ü
	Aroclor-1254		 ;		IU
1 1 / 10 / - 5				~~~	

CKW61

Lab Name: ENVIROSYSTEMS

Contract: 68010084

Lab Code: <u>ENVEYS</u> Case No.: <u>20101</u> - EAS No.: SDG No.: CKW36

rist (scil/water) <u>scol</u>

Lac Sample ID: 93060867

<u>5).)</u> (g/mL) <u>G</u>

Lab File ID:

% Moisture: 25

decanted: (Y/N) N

Date Received: 06/04/93

Sample wit/vol:

Extraction: (SepF/Cont/Sonc)

SONC

Date Extracted: 06/14/93

Concentrated Extract Volumes . 5000

Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL)

Dilution Factor: 100

GPC Cleanup: (Y/N) Y pH:

<u>4.0</u>

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) <u>UG/KG</u> Q

		-	;
3:9-94-:	::sha-9HC	_1	230 10 1
319-65-7	seta-BHC	_{1	230 14 1
319-86-8	daita-BHC	_1	230 IU I
58-29-9	camma-SHC (Lindane)	1.	230 10 1
74-44-6	Hestachlor	1	230 10 1
309-00-2		-	230 IU I
1024-57-3	Heptachlor epoxide	- 1	230 10 1
	Endosulfan I	•	230 14 1
	Dieldrin	1	960 1
	, 4' -DDE	.	440 IÚ I
	Endrin	1	440 IU I
	Endosulfan II	1	. 440 JU 1
72-54-8	4,4'-DDD		440 . IU . I
1031-07-8	Endosulfan sulfate	1	440 IU J
50-29-3	4.4'-DDT		440 IU I
	Methoxychlor	•	2300 IU I
	Endrin ketone	1	440 - 1U 1
	Endrin aldehyde	.	440 10 1
	alpha-Chlordane	1	
5103-74-20	gamma-Chlordane	[1	230 IU I
	Toxaphene	[23000 IU I
12674-11	Aroclor-1016	-ر	4400 IU I
11104-28-22	Aroclor-1221		8900 IU I
11141-16-5	Aroclor-1232	1	4400 IU I
53469-21-9	Aroclor-1242	1	4400 IU I
•	Arcclor-1248		4400 IÙ I
	Aroclor-1254	<u>_</u> ;	4400 IU I
	Araclar-1260	1	4400 IU 1
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Contract: <u>68010084</u>

Lab Name: ENVIROSYSTEMS

Lab Code: <u>ENVEYS</u> Case No.: <u>2010:</u> SAS No.: SEG No.: CKW36

Matric: (scil/water) <u>9071</u> Lad Sample ID: <u>93060868</u>

Sample wt/vol: 50.0 (g/mL) 6 Lab File ID:

% Moisture: <u>62</u> decanted: (Y/N) N Date Received: 06/04/93

Extraction: (SepF/Cont/Sonc) SONC Data Extracted: 06/14/93

- Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/08/93

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: <u>5.4</u> Sulfur Cleanup: (Y/N) N

340 110		CONCENTRAT			_
CAS NO.	CCMPOUND	(ug/L or t	παλκά) <u>Π</u>	3/KG	Q
			Į.		1
::9-94-5	alpha-BHC		;	45	ıu
5:9-95-7	:sta-SHC		<u></u> ;	45	:U
	:elta-BHC	and North	 ;	45	1 U
[5-29-9	çamma-3HC (Lindan	(e)	!	45	- ! U
74-44-3	-Reptachlor		I	45	
509-00-2 -	-Aldrin <u></u>	A Company of the Company	1	45	IU
1024-57-3	-Heptachlor epoxid	e	<u></u> ;	45	14
:57-99-9 	Endosulfan I		1	45	10.
:0-57-1	-Sialdrin		!	87	:U
`Z-55-9	4' -DDE		:	37	ł U
72-20-9	-Endrin	and the second	;	87	ייו
::::::-45-9	-Endosulfan II		_;	37	ĮÜ
'2-54-8 -			<u></u> r	, 37 ,	; U
.031 <i>-</i> 07-8	-Endosulfan sulfat		<u></u> ;	, 97	់រប
50-29-3- 	-4, 4'-DDT		!	37	:U
2-43-5	-Methoxychlor	**	;	450	:U
5494-70 -5 -	-Endrin ketone		<u>_</u> ;	37	ŧΨ
421-36-3	-Endrin aldehyde		;	37	<u>; U</u>
103-71-9	-alpha-Chlordane_	. \$	<u> </u>	45 -	: U
'		. -	<u> </u>	45	:U
001-35 5 52 -	-Toxaphene -Araclar-1015	4	;	4500	
2674-1	-Arcelor-1016			870	: U
1104-28-2	-Aroclor-1221			1800	ាប
	-Aroclor-1232			870	!U
	-Aroclor-1242		_ i	870	ıu
	-Aroclor-1248		- ;	370	: U
1097-49-1			- ,	870	` : U
	-Aroclor-1260		 :	870	:U

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SIE IN 20/0/ SAMPLE SAMPLE		
PAGE / OF 6 O (REQUIRED PROJECT SITE NAME: 6 RAS 110, 20.01 PROJECT SITE LEADER: PROJECT SAMPLE COORT	COMMENTS (NAW) COR COMMENTS (NAME OF COMMENTS COMMEN	Merk Soke

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Caus No. 20101	7. Sample Description (Enter	1. Surface Water	1. 2. Ground Weier 3. Leachate	E. Boll/Sedment	Chief (Special)	1. K. K.		Not a OG Sample		197	42	,					Number	: pe		Received by: (Signature)	Vedby: (Signature)	g: Rill	
9	Preser- s valive : s (Enler in :	Column D)	Netico.	(Appendix	No.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CLP Body		VI 97.57	1.	Mars 59	1]	i.	45B 18:	MOB 19	/ wcn 26	Chain of Custody Seal Number				Received by	O F. Constitution	7
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acord	EXPRESS :	•		2 301 2 301 2 50	779 2007 0	HOOM	Yearfilms Sample Colection	63:35/1100	63:81/080	1.4.92/0801	6.54.8/ 12.50	b-3.95/0900		63-83/1100	asbo/54·E.9	\$10/575	4.77 4.Th	1 0 to 1	•	(Surgery)	Control	Hamsis box	Accepted (Signa Decilied
	Carint Feberal E	6592171603	YSTEMS, INC	Umsey Road		٠. ١	. Number	5.4.1	5w.c	: ·		BIK-TOI		. 1	. Sen-2	. 250-0:			TODY RECORD	Relinquished by: (Signature)	Reinquished by: (5	Date/Time	Spits Samples
& Chain of	4. Date Shoped 6.3.93 Airbil Number	. 659	ENVIROSYSTEMS	di.	A VIEW COLUMN	plonel Specific	Trecting Number	AUGUST Winny	-4205cg +benchb	5	13.1	23435 - Commy by		•	į	1205669 diremps		3. 4 R.	UN OF CUS	Spatere)	S of Consu	aboratory by:	
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Contract Laboratory Program Supportion A PO Box 818 Assendia, VA 22313 760-567-2400 F18 557-2400 NAR Code 2 Rection Mol Supportion		GINNIY 'S			X	RAS Analysis	BA.	×	%	×	X		┿		×Ϋ́	1	e used for		-	16.00	Tana S. C.		(2016-7), passed - Lab Capy for
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The Part of		Non-Superfund Program	**	Site Name :: 5	CR, State Politimodu	Sample		CKW : 44 .	<u>टिल</u> ी, यड	ر الاياري الاياري	25	Ckw 58		2 P	2	3		λ,		Thirt D.M.	Reinquished by: (Signature)	Refrontation 2	
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20(1)	7. Semple Description	1. Surface Water	2. Ground Water 3. Leachere	5. Soft Sedment 5. C. Oil (High cnly)	B. Other (Specify)	. Y	Tor Designated Flood CC R P: 0 - Bent 0 - Gras S 77 FE - Perform End	oduse One take							D.	Vumber	£ :0	Received by: (Signature)	d by. (Signature)	•	
SAS No.	6. Preser- valve (Enter In	1.10	2.HN03 3.NeH504 3.H-5504	S. Other	N. Not preserved	Sampler Correspond	Salani Sa	W men	1 '-1		With the second		Acrib	למיל אכנף של		Chain of Custody Seal	- .	Date / Time Receive	Date / Time Received	s custody seal infect. YNVnon	(au
Record	EXPRESS	<i>5</i>	Twee series	KOAD	RCE/USALAZZEN	. MarDew	Year Time Sumple:	243/1135	-		6-2-43/00-5		0211/26-2-9	6:273/170	2.3.44.7.4UC.	Sealment.		(Signature)	(Signature)	Homerica lacus	wulks) . pedeaay .
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PO Box 616 Assendar VA 22313 703-557-2400 FTS 557-2490 Account Code		Sample Spream	A.	4. 90	100 100 100 100 100 100 100 100 100 100	G 6	trom Box 6 VOA	X	X		X X	X	X	X X	_	j]		Date / Time	Date / Time	EPA Form (2075-7), j
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1. Project de	:•· E	Non-Superfund Program	Sec. 2	.05.89.	Car, State	Sample	(from Beets)	CKN 46 .		לבילי ווא	CEN-SD	CKN 52 - 11	1	(A.1)		Subment for Ce.		æ: 1 🔪	CO Reinclushed by: (Signature)	Holy and the state of the state	Ept rom one 2 (n

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SAS No.	6. Present	2.HK03 3.NeHS04 1.HS04	Second N	10 mm	400 Aug	. 1"	20 Mich 57	1 - 1	1.1	7.77 MX18 25	W.F.	Q X		Chain of Castody Squil		Date / Time Received by	ete / Time . Rece		CANAN FEED FEED VALLE	
Ifallic Her n Custody Record	IL EXPRESS		CONS 13	2.50 FILE	Sample Sample Collection	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	6-2-43/1135		65.29	7.2.41 /20.1	1	62/18/201	4.3		G	(Signature)	(out		Homerke le oue	Accepted
& Chain of Custody I	FEDER	COSYSTEMS, RUMSEY RO	ME BIOZ MEBIA, MID SUSAN M. P.			Hand Riv. 1 .	}	₹ . Seb-4	3E D-5	<u> </u>	2-560-9	SED-10	5ED-12	Additional Samples Sign	CHAIN OF CUSTODY RECORD	Reinquished b	ReEnquished by: (Sign	7.	Carlo Tlans	Split Samples
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Propiet Emple Unese O 819 August VA 2235 57-240 F18 557-240 2 Repon No. Sanging Co.	Sampler (Name)	Sample Signature	S E E E E E E E E E E E E E E E E E E E	E RAS Analysia	VOA BNA Pasy	X X	X	X	XX	XXX	X X X X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	×××	Semple used for a spike and/or Do ck. en, Chal 21		Here Received by:	Time Received by:		(separates)	L'Form (2025-7), provione addison whis White - Lab Caay for Ballon to Ballon
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	SA CARRELL	Sample Collection 2 43/12.0 25/23/12.0 25/23/25/25/25/25/25/25/25/25/25/25/25/25/25/	Signature) Femalks is cut
Chain of Custody Hecord	95 TAC. S. TAC. 2 CC. US	Shelon 10cmfon 10cmfon 12 13 15 15 15 15 15 15 15	Refinquished by: Pate / Time Spiki Samples
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